SPECIAL CABLES

BUILDING RELATIONSHIPS
THROUGH PERFORMANCE

ABOUT US

MISSION & VISION

Special Cables serving the Industry for over three decades as one of the most reputed and trusted Cable Manufacturers

Since its incorporation in 1983, Special Cables have been manufacturing various kinds of industrial cables & wires. Starting as a manufacturer of special purpose cables, the company has expanded its product range to include LT Power & Control cables, Instrumentation & Screened cables, Fire Survival cables, Solar cables, Coaxial cables, Mining cables, Rubber cables, Composite cables, High Temperature Cables, A.B. cables, Overhead conductors, House wires etc.

Special Cables is an organisation where the customer comes First. Our aim is to excel in all areas of operations through continuous improvement and to create a congenial working environment to ensure long lasting and cordial business relationship with our stakeholders and commitment to environmental issues and society as a whole. Over the years, we have strengthened our brand name and reputation in the market and are proud to be the preferred vendor to many leading organisations and industrial houses in the Power, Steel, Mining, Chemicals & Fertilizers, Cement, Water, Oil & Gas, Wind & Solar sectors, all EPC giants and large corporations in the country.

The company is managed by an enterprising team of highly professional, technically qualified and well experienced personnel having proven expertise in the cable industry and management experts from leading engineering and industry background. The board comprises of engineers, technocrats and processionals from India, Canada & France.

We have the vision, the commitment and the expertise to be the market leader. For us, leadership does not mean the biggest, but the best in terms of quality of our products, timely delivery, value advantage, all round satisfaction and trust for our customers.

Quality Assurance and Timely Delivery continue to be the driving force at Special Cables. In the changing world our focus remains on supplying high quality products at very competitive prices. Our mission is to continue to remain the preferred supplier to our valued customers and to strive for growth in existing and new markets.

We passionately follow the philosophy of building long term relationship with our associates, customers, suppliers and employees and have strong bonds of trust, mutual understanding and reliability.

Production & Quality

Our manufacturing units located in Delhi and Uttrakhand are focused on achieving high production capacities through new & energy efficient technologies and process improvements.

New Delhi Unit:

Set up two decades ago, the unit is spread over 40,000 sq.ft. with technical /office block of 11000 sq.ft and provides employment to more than 100 workmen.The unit has installed capacity to manufacture cables & wires worth Rs. 1000 million/annum.

Rudrapur Unit:

Commissioned in 2010, this unit has state-of-the-art manufacturing facilities with machinery procured from reputed domestic and international manufacturers. The current production floor is spread over 100,000 sq. ft. with back-up generators and UPS systems providing uninterrupted 24x7 power supply. The unit has installed capacity to manufacture wire cables & conductors of Rs. 3000 million/annum and provides employment to over 250 workmen.

Quality:

Quality is an all-encompassing philosophy at Special Cables. We always strive to maintain high quality standards and ensure continuous quality improvement, which help us fulfill our mission to provide world-class materials and services, to serve our customers better and better.

All our divisions have their independent testing laboratories equipped with modern and computerized testing equipments. Our Quality Management system ensures the quality of product at each stage of manufacture.

Certification:

- We are ISO 9001 : 2015, ISO 14001: 2015 and OHSAS 18001: 2007 certified.
- Approvals from various National and International Organizations.
- Holding valid BIS certifications for IS:694, IS:1554 (Pt-1), IS:7098 (Pt-1), IS: 9968 (Pt-1) and IS:14255.

IQNet
THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and AIB-VINCOTTE International hereby certify that the organization

Special Cables Pvt. Ltd.

Works : Plot 60-65, Sector 3, I.I.E, Sidcul, Pantnagar, Rudrapur (U.S Nagar) Uttarakhand (India)

Sales & Marketing division : B-31/32, Mohan Cooperative Industrial, Estate, Badarpur, New Delhi 110044, (India)

for the following field of activities

Design , Manufacture and Supply of Power Cables, Control Cables, Instrumentation Cables, Aerial Bunched Cables, Railway Signalling Cables, Solar Cables, Fire Survival Cables, House Wiring Cables, ACSR conductors, AAC conductors, AAAC conductors, Quad Cables, Telecom Cables & Rubber Cables,

has implemented and maintains a

Management System

which fulfils the requirements of the following standard

ISO 9001:2015

Issued on : 8 August 2016
Validity date : 21 July 2019
Registration Number : BE-13 QMS 5186a

Daniilla Segers
Chairman Certification Committee

IQNet
THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and AIB-VINCOTTE International hereby certify that the organization

Special Cables Pvt. Ltd.

Works : Plot 60-65, Sector 3, I.I.E, Sidcul, Pantnagar, Rudrapur (U.S Nagar) Uttarakhand (India)

Sales & Marketing division : B-31/32, Mohan Cooperative Industrial, Estate, Badarpur, New Delhi 110044, (India)

for the following field of activities

Design, Manufacture and Supply of Power Cables, Control Cables, Instrumentation Cables, Aerial Bunched Cables, Railway Signalling Cables, Solar Cables, Fire Survival Cables, House Wiring Cables, ACSR conductors, AAC conductors, AAAC conductors, Quad Cables , Telecom Cables & Rubber Cables

has implemented and maintains a

Management System

which fulfils the requirements of the following standard

ISO 14001:2015

Issued on : 8 August 2016
Validity date : 21 July 2019
Registration Number : BE-13 EMS 636a

Daniilla Segers
Chairman Certification Committee

IQNet
THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

IQNet and AIB-VINCOTTE International hereby certify that the organization

Special Cables Pvt. Ltd.

Works : Plot 60-65, Sector 3, I.I.E, Sidcul, Pantnagar, Rudrapur (U.S Nagar) Uttarakhand (India)

Sales & Marketing division : B-31/32, Mohan Cooperative Industrial, Estate, Badarpur, New Delhi 110044, (India)

for the following field of activities

Design, Manufacture and Supply of Power Cables, Control Cables, Instrumentation Cables, Aerial Bunched Cables, Railway Signalling Cables, Solar Cables, Fire Survival Cables, House Wiring Cables, ACSR conductors, AAC conductors, AAAC conductors, Quad Cables , Telecom Cables & Rubber Cables

has implemented and maintains a

Management System

which fulfils the requirements of the following standard

OHSAS 18001:2007

Issued on : 8 August 2016
Validity date : 20 July 2019
Registration Number : BE-13 OHMS 130a

Daniilla Segers
Chairman Certification Committee

DNV
DNV BUSINESS ASSURANCE
MANAGEMENT SYSTEM CERTIFICATE

SPECIAL CABLES PRIVATE LIMITED

ISO 9001:2008

DEVELOPMENT, MANUFACTURE AND SUPPLY OF CABLES, WIRES AND CONDUCTORS

Product Range

POWER CABLES

Application: Power Distribution for Industrial, commercial, institutional and residential purposes.

Types and Sizes: From Single core up to 4 core - Ranging from 4mm^2 to 1200mm^2

Conductor: Aluminium - Solid, Stranded (Sector/Circular) or Copper - Solid, Stranded (Sector/Circular) or Flexible

Insulation: PVC - Type A, Type C, Polyetheylene, XLPE, ZHFR, LSZH

Inner Sheath: PVC - ST1, HR, FR, FRLS, LSZH

Armour: Galvanized Steel or Aluminium Wire / Strip / Tape

Outer Sheath: PVC - ST1, HR, FR, FRLS, LSZH, XLPO

Specification: IS: 1554 (Pt-1 & 2), IS: 7098 (Pt-1 & 2) IEC: 60502-1, BS: 5467, BS: 6396

CONTROL CABLES

Application: Suitable for connections for Control Circuits Communication Systems, Electrical Panels, Machine Tools, etc. Also used for lighting at lower loads.

Types and Sizes: Upto 61 cores, from 1.0 mm^2 to 2.5 mm^2

Conductor: Copper - Solid, Stranded (Circular) or Flexible - Bare or Tinned

Insulation: PVC - Type A, Type C, Polyetheylene, XLPE

Inner Sheath: PVC - ST1, HR, FR, FRLS, LSZH

Armour: Galvanized Steel Wire / Strip / Tape

Outer Sheath: PVC - ST1, HR, FR, FRLS, LSZH

Specification: IS: 1554 (Pt-I), IS: 7098 (Pt-I), IEC: 60502-1, BS: 5467, BS: 6346

INSTRUMENTATION CABLES

Application: Widely used in measurement, communication and data acquisition systems. Also used in microprocessor based/computerised instrumentation system. Designed to transmit without interference.

Types and Sizes: Upto 50 Pairs, Triads from 0.5 mm^2 to 1.5 mm^2

Conductor: Copper - Solid, Stranded (Circular) or Flexible - Bare or Tinned

Insulation: PVC - Type A, Type C, Polyetheylene, XLPE

Shielding: Aluminium - Mylar Braiding

Inner Sheath: PVC - ST1, HR, FR, FRLS, LSZH

Armour: Galvanized Steel Wire / Strip / Tape / Braid

Outer Sheath: PVC - ST1, HR, FR, FRLS, LSZH

Specification: IS:1554 (Pt-1), BS: 5308 (Pt-1 & 2), IEC: 189 (Pt 1 & 2), VDE: 0815 & 0816, BS EN: 50288

RUBBER CABLES

Application: Used in locations where high resistance to heat, oil and fire (HOFR) are required. Commonly used in lifts, cranes, pumps and other heavy duty equipment.

Types and Sizes: Single core & multi core - 0.5 mm^2 to 630 mm^2

Conductor: Flexible Tinned Copper Conductor

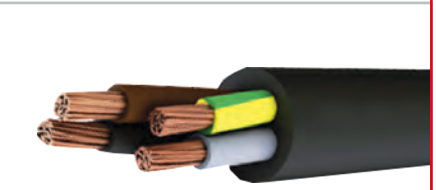
Insulation: EPR, CSP, PCP, Silicone Rubber

Inner Sheath: EPR, CSP, PCP, Silicon Rubber

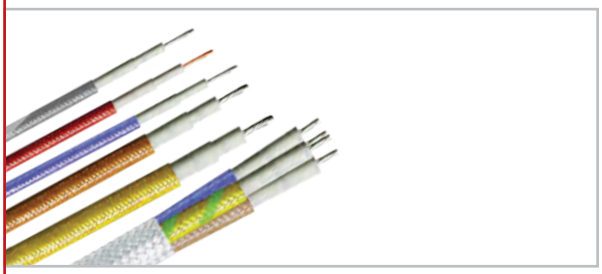
Armour: Copper Wire / Stainless Steel Braiding

Outer Sheath: EPR, CSP, PCP, Silicone Rubber

Specification: IS: 9968 (Pt-1 & 2), BS: 6500, BS: 7919, BS EN: 60332, IEC: 60502



HIGH TEMPERATURE CABLES



Application: Steel, Chemical and Metallurgical industry, aircraft & aerospace vehicle wiring, nuclear power plants, oil exploration & oil rigs, military & defence equipments, auto wiring etc.

Conductor: Bare / Tinned copper (up to 120° C), Silver plated copper (up to 200° C), Nickel plated conductor (up to 260° C).

Insulation: Special compounds used for cables to work upto 350° C

Screening: Individual and/ or overall with Aluminium Mylar tape with tinned copper drain wire / or Braided with bare / tinned / nickel plated / silver plated copper wire.

Armouring: Galvanized steel wire / stainless steel wire.

Specification: IS:8130, IEC: 60228, VDE:0295

SOLAR CABLES

Application: Used for interconnections between solar panels and other electrical components. These are designed to be UV resistant and weather resistant

Types and Sizes: Typically Single or Double core, from 2.5 mm^2 to 50 mm^2

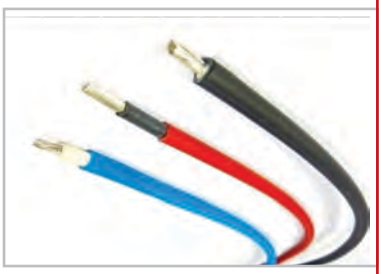
Conductor: Stranded / Flexible Tinned Copper Conductor

Insulation: TPE, XLPO, Ultravoilet - Resistant PVC

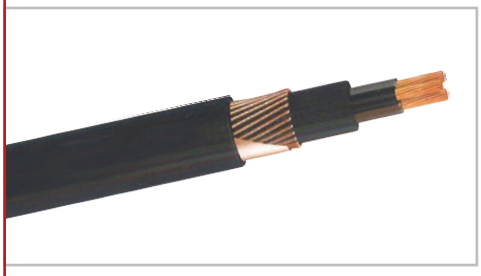
Separator: Paper Tape

Outer Sheath: Ultravoilet - Resistant PVC

Specifications: UL Type PV-UL 4703, TUV 2 pfg 1169/08.2007



CONCENTRIC CABLES



Application: Indoor, outdoor and underground installation in ducts. Used for better mechanical protection and higher resistance to fire and toxic fumes

Conductor: Solid / Stranded Bare Copper / Aluminium Conductor

Insulation: PVC- Type A, XLPE, FR, LSZH

Armour: Concentric Copper / Aluminium Conductor / Copper / Aluminium Tape

Outer Sheath: FR, FRLS, LSZH, ZHFR

Specification: BS: 7870, DKS: 1022, Customer Specifications

FIRE SURVIVAL CABLES

Application: Designed to maintain circuit integrity during fire. Typically used in fire alarm systems, emergency lighting, critical circuits and other safety equipment.

Types and Sizes: S/CX16 to 1200 sq. mm Multicore 16 to 400 sq. mm

Conductor: Bare / Tinned Copper, Aluminium - Solid, Stranded or Flexible

Fire Barrier: Layers of Glass Mica Tape

Insulation: Heat Resistant PVC, XLPE, Silicon Rubber with Additional taping or screening if required

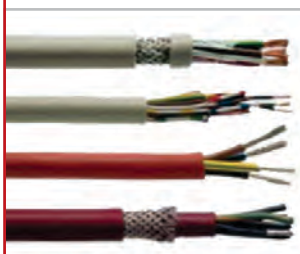
Inner Sheath: FR PVC, FRLS PVC, ZHFR, LSZH

Armouring: Galavanised Steel Wire / Strip

Outer Sheath: FR PVC, FRLS PVC, ZHFR

Specification: BS: 7846 or equivalent BS: 6387 Category CWZ, IEC: 6033, Customer Specifications

THERMOCOUPLE / COMPENSATING CABLES



Application: Designed for interconnection between Thermocouple probes and Reference units

Construction Details: Chromal Alumel/Iron/Copper Constantan Alloy - Solid / Stranded

Types and Sizes: KX, VX, EX, SX- Typically from 16-20 AWG

Insulation: PVC-Type A, HR, Polyetheylene, XLPE

Shielding: Aluminium - Mylar / Copper Braiding

Inner Sheath: PVC - ST1, HR, FR, FRLS

Armouring: Galavanised Steel Wire / Strip

Outer Sheath: PVC - ST1, HR, FR, FRLS

Specification: ANSI: MC 96.1, IS: 8784, BS: 4937, IEC: 584

COAXIAL CABLES

Application: Used for transmission of radio frequency signal and for connections to systems in local area networks (LAN), cable televisions, PICC Communication etc.

Construction Details: Typically solid copper conductor. Stranded /Flexible conductor is also available

Types and Sizes: Usually manufactured for Impedance of 50 to 125 Ω

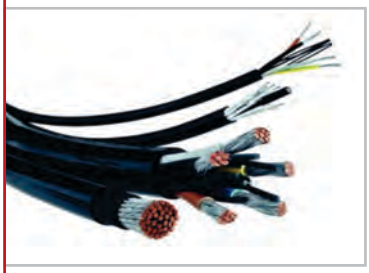
Insulation: Polyethylene, Cellular PE, Foam PE

Shielding: Aluminium - Mylar / Copper / Steel Braiding

Outer Sheath: PVC-ST1, HR, FRLS, PE

Specification: Radio Guide and Military MIL-C-17, IS:11967, BS:2316 & Customer Specifications.

WIND CABLES



Power Cable: For transmitting power from the generator mounted in the nacelle of the wind tower to base station. Flexible cables made of special elastomeric compounds to meet torsional stresses exerted to rotation of the nacelle in relation to wind direction.

Conductor: Flexible class-5 tinned or bare copper conductors, made to IEC-60228/IS-8130

Range (single cover): 10 Sq mm to 300 Sq mm

Insulation: EPR

Sheath: Special elastomer compound with Oil, Fire, Hydrolysis and Torsion Resistant properties. (Zero halogen sheath available upon request)

Control & Instrumentation Cable: For used in Wind Energy applications such as rotor blade pitch control, Yaw control, Top box, Anemometer feed back, Remote data logging etc. Construction as per Customer's requirement and conforming to various National/International Standards.

RAILWAY SIGNALLING CABLES

Application: Used in all railway applications including light switching, track changing and communication.

Types and Sizes: Screened / Unscreened upto 61 Cores

Conductor: Solid Circular Conductor

Insulation: PVC with IRS Properties

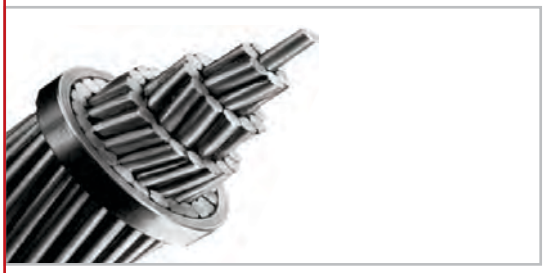
Inner Sheath: PVC

Armour: Galvanised Wire or Strip / Double Steel Tape

Outer Sheath: PVC with IRS properties

Specifications: Indian Railway Specifications: S-63/2014 with upto date amendments

OVERHEAD CONDUCTORS



Application: Transmission & Distribution Overhead Power Lines

Conductor: Stranded Aluminium, Aluminium Alloy

Specification: IS 398, BS EN 50182, IEC 61089, DIN 48201

(1) AAC: All Aluminum Conductor

(2) ACSR: Aluminum Conductor Steel Reinforced

(3) AAAC : All Aluminum Alloy Conductor

(3) ACAR : Aluminum Conductor Alloy Reinforced

(4) ACSR/AW: Aluminum Conductor Steel Reinforced/Aluminium Clad Steel Core

(5) AACSR : All Aluminum Conductor Steel Reinforced

(6) AACSR/AW: All Aluminum Conductor Steel Reinforced/Aluminium Clad Steel Core

(7) Special Conductors: GAP, INVAR, ACCC

AERIAL BUNCHED CABLES

Application: Typically used in over-head power transmission & distribution and in temporary installations

Conductor: Aluminium Circular Phase Conductors

Messenger: Aluminium Alloy or Galavanized Steel Messenger Conductor.

Insulation: Polyetheylene, XLPE, HDPE

Specification: IS: 14255, IS: 398, IEC 228, BS: 60502, HD: 626, NFC: 33-209

HOUSE/BUILDING/INDUSTRIAL WIRE/FLEXIBLE CABLES

Application: Residential and Commercial Buildings, Multiplexes, Institutional & Industrial applications

Conductor: Copper - Solid/Stranded (Circular) or Flexible-Bare or Tinned, 0.5 to 240 sq mm.

Insulation: Natural PVC, HR-PVC, FR, FRLS, LSZH

Outer Sheath : Skin Colour PVC, FR, FRLS

Specifications : IS: 694, BS: 6004, 6500, BS:7211, IEC 60227

FLAT & SUBMERSIBLE CABLE

Application: Temporary Connections, Wiring Submersible Pumps

Conductor: Copper - Stranded (Circular) or Flexible - Bare or Tinned

Insulation: PVC, HR PVC

Inner Sheath: PVC, HR PVC

Outer Sheath: PVC, HR PVC

Specification: IS: 694, BS: 6004/6500, BS EN: 60228, BS: 7211

INDOOR TELEPHONE CABLES

Application: Indoor installation for the interconnection or telephone, electronic equipments.

Conductor: Copper-Solid Bare or Tinned, 0.4, 0.5, 0.63, 0.71 & 0.9 mm up to 800 pairs.

Insulaion: PVC, PE

Inner Sheath: PVC, HR PVC

Armouring: Steel wire / strip

Outer Sheath: PVC, PE, FRLS

Specification: DOT, CW: 1308, BS: 3573, IEC: 60189, G/W1R-06

FLEXIBLE MULTI CORE CABLES

Application: Residential, Commercial, Buildings, Multplexes, Institutional & Industrial applications

Size: Two, Three or Four Core

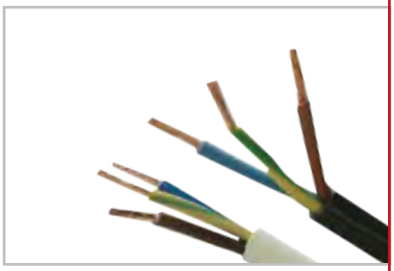
Conductor: Multi Stranded Plain / Tinned

Insulation: PVC, HR PVC, FR, FRLS, LSZH

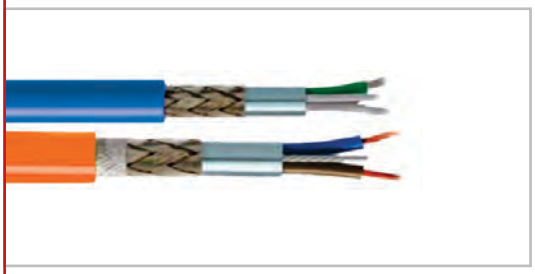
Inner Sheath : PVC, HR PVC

Outer Sheath: PVC, HR PVC, FR, FRLS, LSZH

Specification: IS: 694, BS: 6000, Customer Requirements



FOUNDATION FIELDBUS / PROFIBUS CABLES



Application: For Bi-directional communications protocol used for communications amongst field devices and control system. Installed in refining, petrochemicals, power generation, food & beverage, pharmaceuticals and nuclear applications.

Conductor: Bare / Tinned copper (up to 120° C), Silver plated copper (up to 200° C), Nickel plated conductor (up to 260° C).

Range: 22 AWG / 18 AWG / 16 AWG / 14 AWG

Insulation: Polyethylene, XLPE, PFA for temp.>150 Deg. C

Inner Sheath: PVC Type A, HR, FR, FRLS, ZHER, FEP, PFA

Armour: Round Galvanized Steel Wire/Flat Strip/Steel Wire Braid

Outer Sheath: PVC, HR, FR, FRLS, ZHER, FEP, PFA with plain Orange Jacket or with strip for easy identification. Blue Jacket also available for Safe application.

Specification: Foundation Fieldbus FF-844H1, Design based on EN50288-7/ BS: 5308 (Pt-1), IEC 60332, Electrical properties : FF-844H1 and IEC 61158-2

CRD AND TRAILING CABLES

Application: Used in conveyor machinery such as transfer cars, boom-stackers, side arm chargers, bulk materials conveyors etc.They find application in almost every industry segment like Steel Mills, Cement Plants, Docks, Power Plants, Automobile Industries & Refineries and Petrochemicals.

Conductor: Class-5 flexible tinned or bare copper

Insulation: EPR

Screening (if Applicable): Tinned or bare copper wire braid

Inner Sheath: HOFRElastomer

Anti Kink Braid: Fibre braid embedded between inner and outer sheath

Outer Sheath: HOFR-Elastomer

Features: Designed to withstand continuous reeling and unreeling, Sheath materials that have a high degree of flexibility, excellent heat resistance, oil and fire resistant properties.

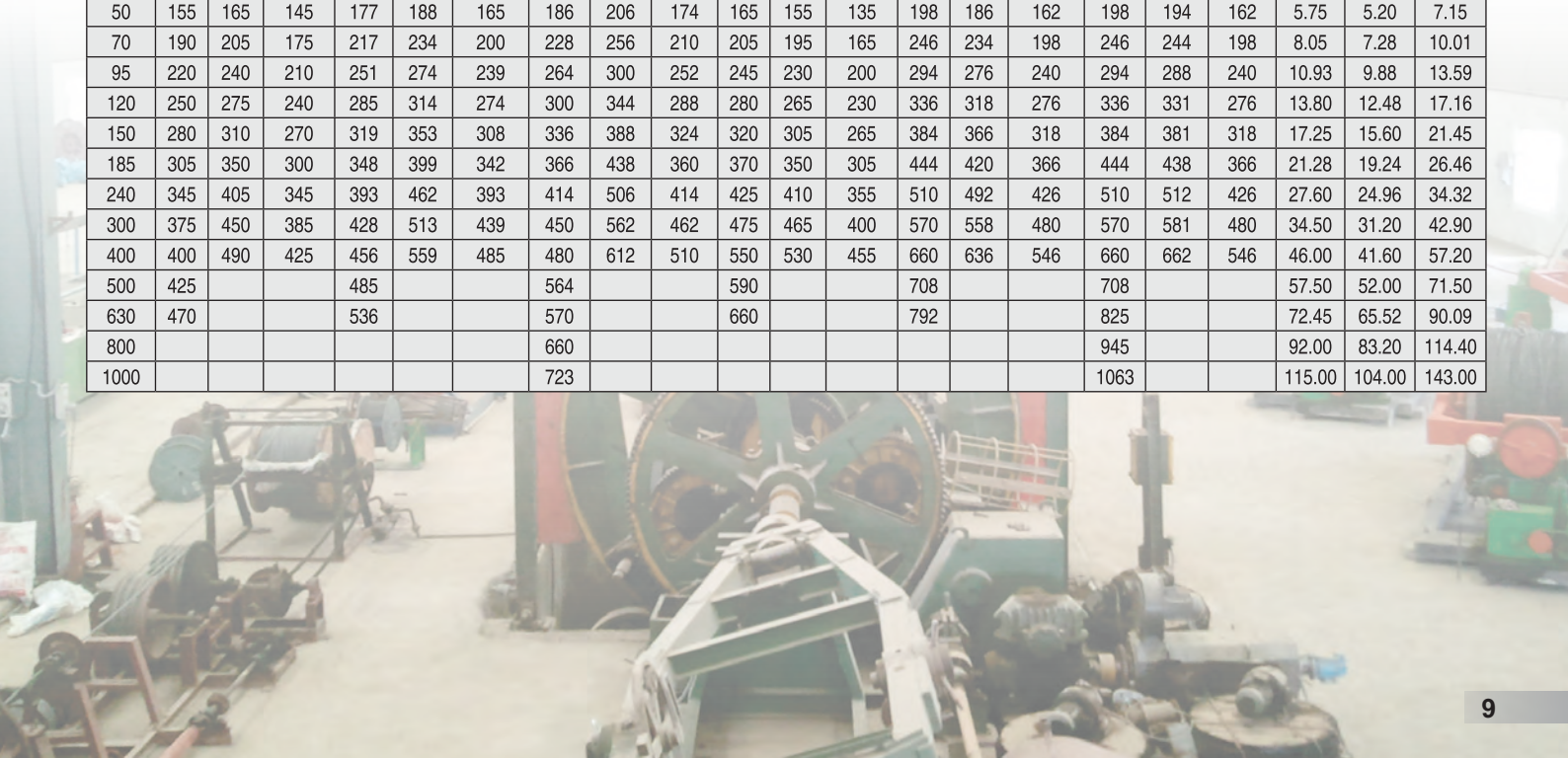
Specification: Customer Specifications

ALUMINIUM CONDUCTOR - POWER CABLES

Nom. Area of Con-ductor	CURRENT RATING IN GROUND AT 30°C									CURRENT RATING IN AIR AT 40°C									SHORT CIRCUIT RATING		
	1 C PVC A	2 C PVC A	3C, 3.5C, 4C PVC A	1 C PVC C	2 C PVC C	3C, 3.5C, 4C PVC C	1 C XLPE	2 C XLPE	3C, 3.5C, 4C XLPE	1 C PVC A	2 C PVC A	3C, 3.5C, 4C PVC A	1 C PVC C	2 C PVC C	3C, 3.5C, 4C PVC C	1 C XLPE	2 C XLPE	3C, 3.5C, 4C XLPE	PVC A	PVC C	XLPE
6	39	40	35	44	46	40	44	50	43	35	35	30	42	42	36	39	44	50	0.456	0.414	0.564
10	51	55	46	58	63	52	59	69	57	47	47	40	56	56	48	53	59	67	0.760	0.690	0.940
16	66	70	60	75	80	68	76	88	73	64	59	51	77	71	61	73	74	70	1.22	1.10	1.50
25	86	90	76	98	103	87	96	112	94	84	78	70	101	94	84	98	98	96	1.90	1.73	2.35
35	100	110	92	114	125	105	114	138	113	105	99	86	126	119	103	121	124	117	2.66	2.42	3.29
50	120	135	110	137	154	125	135	169	133	130	125	105	156	150	126	150	156	142	3.80	3.45	4.70
70	140	160	135	160	182	154	166	200	164	155	150	130	186	180	156	187	188	179	5.32	4.83	6.58
95	175	190	165	200	217	188	198	238	196	190	185	155	228	222	186	230	231	221	7.22	6.56	8.93
120	195	210	185	222	239	211	225	262	223	220	210	180	264	252	216	268	262	257	9.12	8.28	11.28
150	220	240	210	251	274	239	253	300	249	250	240	205	300	288	246	309	300	292	11.40	10.35	14.10
185	240	275	235	274	314	268	286	344	282	290	275	240	348	330	288	360	344	337	14.06	12.77	17.39
240	270	320	275	308	365	314	332	400	326	335	325	280	402	390	336	433	406	399	18.24	16.56	22.56
300	295	355	305	336	405	348	376	444	367	380	365	315	456	438	378	501	456	455	22.80	20.70	28.20
400	325	385	335	371	439	382	431	481	418	435	420	375	522	504	450	596	525	530	30.40	27.60	37.60
500	345	410	350	393	467	399	490	523	470	480	450	410	576	540	492	693	678	612	38.00	34.50	47.00
630	390			445			557	592	529	550			660			814	786	707	47.88	43.47	59.22
800	440			502			600			640			768			890			60.80	55.20	75.20
1000	490			559			650			720			864			1050			76.00	69.00	94.00

COPPER CONDUCTOR - POWER CABLES

Nom. Area of Con-ductor	CURRENT RATING IN GROUND AT 30°C									CURRENT RATING IN AIR AT 40°C									SHORT CIRCUIT RATING		
	1 C PVC A	2 C PVC A	3C, 3.5C, 4C PVC A	1 C PVC C	2 C PVC C	3C, 3.5C, 4C PVC C	1 C XLPE	2 C XLPE	3C, 3.5C, 4C XLPE	1 C PVC A	2 C PVC A	3C, 3.5C, 4C PVC A	1 C PVC C	2 C PVC C	3C, 3.5C, 4C PVC C	1 C XLPE	2 C XLPE	3C, 3.5C, 4C XLPE	PVC A	PVC C	XLPE
4	39	41	36	44	47	41	47	51	43	35	35	30	42	42	36	42	44	36	0.460	0.416	0.572
6	49	50	45	56	57	51	59	63	54	44	45	39	52.8	54	46.8	53	56	47	0.690	0.624	0.858
10	65	70	60	74	80	68	78	88	72	60	60	52	72	72	62.4	72	75	62	1.15	1.04	1.43
16	85	90	77	97	103	88	102	113	92	82	78	66	98.4	93.6	79.2	98	98	79	1.84	1.66	2.29
25	110	115	99	125	131	113	132	144	119	110	105	90	132	126	108	132	131	108	2.88	2.60	3.58
35	130	140	120	148	160	137	156	175	144	130	125	110	156	150	132	156	150	132	4.03	3.64	5.01
50	155	165	145	177	188	165	186	206	174	165	155	135	198	186	162	198	194	162	5.75	5.20	7.15
70	190	205	175	217	234	200	228	256	210	205	195	165	246	234	198	246	244	198	8.05	7.28	10.01
95	220	240	210	251	274	239	264	300	252	245	230	200	294	276	240	294	288	240	10.93	9.88	13.59
120	250	275	240	285	314	274	300	344	288	280	265	230	336	318	276	336	331	276	13.80	12.48	17.16
150	280	310	270	319	353	308	336	388	324	320	305	265	384	366	318	384	381	318	17.25	15.60	21.45
185	305	350	300	348	399	342	366	438	360	370	350	305	444	420	366	444	438	366	21.28	19.24	26.46
240	345	405	345	393	462	393	414	506	414	425	410	355	510	492	426	510	512	426	27.60	24.96	34.32
300	375	450	385	428	513	439	450	562	462	475	465	400	570	558	480	570	581	480	34.50	31.20	42.90
400	400	490	425	456	559	485	480	612	510	550	530	455	660	636	546	660	662	546	46.00	41.60	57.20
500	425			485			564			590			708			708			57.50	52.00	71.50
630	470			536			570			660			792			825			72.45	65.52	90.09
800							660									945			92.00	83.20	114.40
1000							723									1063			115.00	104.00	143.00



CONTROL CABLES

No. of Cores	CURRENT RATING IN GROUND AT 30°C						CURRENT RATING IN AIR AT 40°C						SHORT CIRCUIT RATING					
	1.5 PVC A	1.5 PVC C	1.5 XLPE	2.5 PVC A	2.5 PVC C	2.5 XLPE	1.5 PVC A	1.5 PVC C	1.5 XLPE	2.5 PVC A	2.5 PVC C	2.5 XLPE	1.5 PVC A	1.5 PVC C	1.5 XLPE	2.5 PVC A	2.5 PVC C	2.5 XLPE
2	23	26	33	32	36	39	20	24	29	27	32	32	0.173	0.156	0.215	0.288	0.260	0.358
3	21	24	25	27	31	34	17	20	22	24	29	30	0.173	0.156	0.215	0.288	0.260	0.358
4	21	24	25	27	31	34	17	20	22	24	29	30	0.173	0.156	0.215	0.288	0.260	0.358
5	21	24	24	27	31	31	17	20	21	24	29	28	0.173	0.156	0.215	0.288	0.260	0.358
6	15	17	22	20	23	29	13	16	19	18	22	26	0.173	0.156	0.215	0.288	0.260	0.358
7	14	16	21	20	23	27	13	16	18	17	20	25	0.173	0.156	0.215	0.288	0.260	0.358
10	13	15	18	18	21	24	11	13	16	15	18	21	0.173	0.156	0.215	0.288	0.260	0.358
12	12	14	17	17	19	22	10	12	15	14	17	20	0.173	0.156	0.215	0.288	0.260	0.358
14	11	13	16	16	18	21	10	12	14	13	16	19	0.173	0.156	0.215	0.288	0.260	0.358
16	11	13	16	15	17	20	9	11	14	13	16	18	0.173	0.156	0.215	0.288	0.260	0.358
19	10	11	15	14	16	19	9	11	13	12	14	17	0.173	0.156	0.215	0.288	0.260	0.358
24	9	10	13	13	15	17	8	10	12	11	13	16	0.173	0.156	0.215	0.288	0.260	0.358
30	9	10	12	12	14	16	7	8	11	10	12	14	0.173	0.156	0.215	0.288	0.260	0.358
37	8	9	11	11	13	15	7	8	10	10	12	14	0.173	0.156	0.215	0.288	0.260	0.358
61	7	8	9	9	10	12	6	7	8	8	10	11	0.173	0.156	0.215	0.288	0.260	0.358

VARIATION IN AMBIENT TEMPERATURE (AIR)

AMBIENT TEMP	15	20	25	30	35	40	45	50	55
PVC	-	1.32	1.25	1.16	1.09	1	0.9	0.8	0.69
XLPE	-	1.18	1.14	1.1	1.05	1	0.95	0.89	0.84

VARIATION IN AMBIENT TEMPERATURE (GROUND)

AMBIENT TEMP	15	20	25	30	35	40	45	50	55
PVC	1.17	1.12	1.06	1	0.94	0.87	0.79	0.71	-
XLPE	1.12	1.08	1.04	1	0.96	0.92	0.86	0.82	-

RATING FACTOR FOR DEPTH OF LAYING (CABLES LAID DIRECT IN GROUND)

DEPTH OF LAYING	SIZE OF CABLE		
CM	UP TO 25 MM^2	25 MM^2 to 300 MM^2	ABOVE 300 MM^2
75	1.00	1.00	1.00
90	0.99	0.98	0.97
105	0.98	0.97	0.96
150	0.97	0.96	0.95
120	0.96	0.94	0.92
180 or More	0.95	0.93	0.91

Business Sectors

- Steel Plants
- Mining Industry
- Non Ferrous Metal Smelters
- Oil & Gas Refineries
- Power Generation, Transmission & Distribution
- Automation Industry
- Cement Plants
- Renewable Energy (Solar Power, Wind Power)
- Government & Public Sector Undertakings
- Chemical & Fertilizer Sector
- Military & Defence
- Railway & Metro Industry
- Automobile Sector
- Shipbuilding Industry
- Airport Lighting
- Lifts & Elevators Building
- Crane Manufacturers
- Material Handling & Utility Vehicles
- Paper Mills
- EPC Contractors & Consultants
- Construction & Infrastructure
- Agriculture & Irrigation

Clientele

LIST OF SOME IMPORTANT CUSTOMERS & CONSULTANTS:

- ACME Telepower Ltd.
- Allen Bradley India Ltd.
- Alstom Power Ltd.
- Adani Power
- Anupam Industries Ltd.
- Areva T&D
- Asea Brown Boveri Ltd. (ABB)
- Bajaj Auto Ltd.
- Bhabha Atomic Reserarch Centre
- Bharat Heavy Electricals Ltd. (BHEL)
- Blue Star Ltd.
- BSES Ltd.
- C.P. W.D.
- Cabinet Secretariat, Govt. of India
- Chambal Fertilizer & Chemical Corporation Ltd.
- Damodar Valley Corporation
- Durga Cement Works
- DCM Shriram Industries Ltd.
- Delhi Metro Rail Corporation
- DESEIN Ltd.
- Electronic Corporation of India Ltd.
- Engineering Projects (India) Ltd.
- Engineers India Ltd. (EIL)
- Gas Authority of India Ltd.
- G.E. Corporation
- Honeywell Ltd.
- Isolux Corsan
- Indian Air Force
- Indian Drugs & Pharmaceuticals Ltd.
- Indian Farmers Fertilizers Co-operative Ltd. (IFFCO)
- Indian Oil Corporation Ltd.
- Indian Railways
- Indo Gulf Fertilizers & Chemical Corporation Ltd.
- IRCON Ltd
- Jai Prakash Associates
- Jindal Steel & Power Ltd.
- JK Corporation Ltd.
- JSW Ispat Ltd., Dolvi
- JSW Steel Ltd., Bellary
- JSW Steel Ltd., Salem
- Kanpur Fertilizers Ltd.
- Larsen & Toubro Ltd.
- M.N. Dastur & Co. Ltd.
- Macawber Beekay Ltd
- Mahanadi Coalfields Limited
- Maruti Udyog Ltd.
- Mcnally Bharat Ltd
- MECON
- National Fertilizers Ltd.
- National Hydro Power Corporation Ltd. (NHPC)
- National Thermal Power Corporation Ltd. (NTPC)
- Power Grid Corporation of India
- Projects Development of India Ltd.
- Punj Lloyd Ltd.
- RINL - Visakhapatnam Steel Plant
- Steel Authority of India - All Plants
- Schenck Jenson & Nicholson Ltd.
- Shapoorji Pallonji & Co. Ltd.
- Shri Cement Ltd.
- Siemens Ltd.
- SMS-Siemag
- Sriram EPC
- State Electricity Boards
- Sterling & Wilson Ltd
- Tata Motors Ltd.
- Tata Power Co. Ltd.
- Tata Projects Ltd.
- Tata Steel Ltd.
- Thermax Ltd.
- Thyssen Krupp
- VA-Tech Wabag
- Vikram Sarabhai Space Centre
- Voltas Ltd.
- Electro Gipromezh, Russia
- EDM, Mozambique
- Gab Products Ltd. Ibadan, Nigeria
- KYCR Coil Industries, Bangladesh
- Ministry of Energy, D.R. Congo
- Myanmar Automobile and Diesel Engine Industries
- Myanmar Gen. & Maintt Industries
- Royal Govt., Div. of Power, Bhutan
- Shah Cement Industries, Bangladesh
- Tendaho Sugar, Ethiopia

OUR CUSTOMERS

IndianOil · IFFCO (Wholly owned by Cooperatives) · L&T · DMRC · ABB · सेल SAIL · पावरग्रिड · NDPL

Indian Railways · Aditya Birla Hindalco · Lafarge · BHEL · GEA · Thermax · BGR Energy · Tata Steel

HVPN · Areva · JSW · Primetals Technologies · एनटीपीसी NTPC · JSPL Jindal Steel & Power Limited · Schneider Electric · SMS Siemag (SMS group)

Siemens · Isolux Corsán · Honeywell · Yokogawa · Alstom · ICON

SPECIAL CABLES PVT. LTD.

(An ISO 9001: 2015, ISO 14001: 2015, OHSAS 18001: 2007 Company)

Regd. Office :
2, Community Centre, East of Kailash, New Delhi - 110 065, India

Corporate Office & Unit I :
B-2/12, Mohan Cooperative Industrial Estate,
Badarpur, New Delhi-110 044, India
Phone : +91 11 29891011, 29893640, 46553134 ★ Telefax : +91 11 41622779
Email : sales@specialcables.co.in, worksdel@specialcables.co.in
Website: www.specialcables.co.in

Unit II: Plot No. 60 to 65, Sector 3, IIE, Pant Nagar (U.S. Nagar)
Rudrapur – 263153, Uttrakhand, India
Phone: +91 594 4250781, 4250788 ★ E-mail:worksrdr@specialcables.co.in

BRANCH OFFICES & REPRESENTATIVES:

Kolkata | Mumbai | Chennai | Bangalore | Hyderabad | Jamshedpur | Bhilai | Vishakhapatnam | Pune | Rourkela