



SVK CONDUCTORS AND CABLES PVT LTD

CONNECTING POWER, DELIVERING TRUST



Send Email Here
svkconductors@gmail.com

Visit Our Website
www.svkconductors.com





About Us

SVK Conductors & Cables Pvt. Ltd. is a trusted manufacturer and supplier of premium-quality conductors and cables, known for delivering reliable, high-performance solutions across diverse industries. The company specializes in manufacturing a wide range of overhead conductors, LTAB cables, aluminium armoured power cables, and customized cable solutions for diverse industrial and infrastructure requirements. Backed by the visionary leadership of its Directors, who collectively bring over 25 years of proven expertise in the cables and conductors manufacturing industry, SVK combines deep technical knowledge with a strong commitment to quality and innovation. Their extensive experience in manufacturing excellence, quality assurance, strategic sourcing, and supply chain management has played a pivotal role in establishing SVK as a trusted partner for customers across various sectors.

Why Choose Us

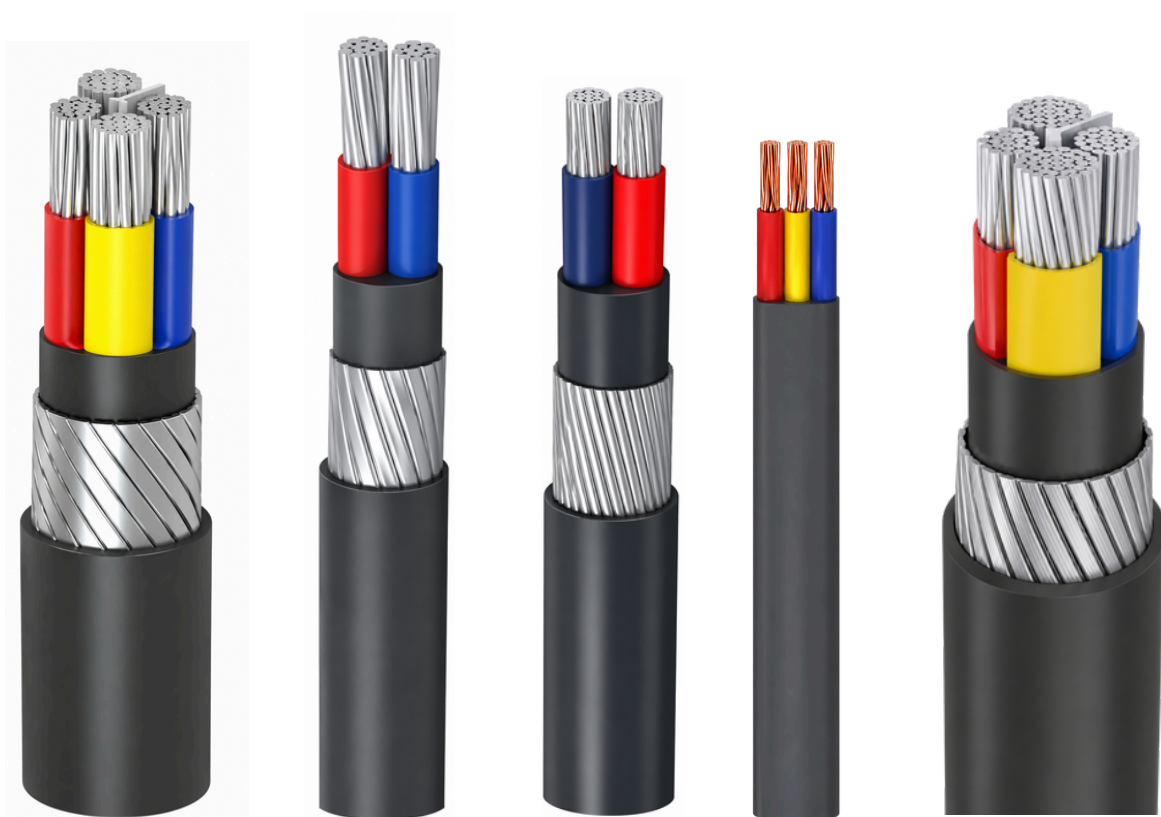
At SVK Conductors & Cables Pvt. Ltd., we are committed to delivering superior quality conductors and cable solutions that meet the evolving needs of the power and electrical industry. Our focus on quality, innovation, customer satisfaction, and timely delivery has made us a trusted partner for infrastructure, industrial, and power projects across India

25+

**Years Of
Industry Experience**



- L.V. PVC & XLPE POWER CABLES WITH COPPER AND ALUMINIUM CONDUCTOR
- L.V. PCV & XLPE CONTROL CABLES WITH COPPER CONDUCTOR
- RAILWAY SIGNALLING CABLES
- BUILDING WIRES
- SINGLE CORE INDUSTRIAL FLEXIBLES PVC CABLES
- MULTI CORE INDUSTRIAL FLEXIBLE CABLES
- SUBMERSIBLE FLAT AND ROUND CABLES





ABOUT COMPANY:-

SVK Conductors and Cables Pvt. Ltd., with a glorious track record of over 4 years, has earned a reputation as one of the fastest-growing companies in the Indian cable industry. We believe that our competitive edge lies in continuous product innovation, superior quality, and the ready availability of our products. We constantly strive to enhance customer satisfaction by delivering best-in-class products and services. At SVK, we understand the importance of both Quality and performance. Through our ongoing commitment to excellence, we continuously work to improve customer satisfaction by meeting evolving market demands and exceeding customer expectations.

XLPE Cables

XLPE insulated heavy duty cables were introduced worldwide in the mid-sixties. These cables have overcome the limitations of PVC insulated cables such as thermal degradation, poor moisture resistance, and thermoplastic nature. The advantages of XLPE insulated cables in comparison to PVC insulated cables are as follows:

APPLICATION:-

The cables are suitable for use on AC single-phase or three-phase (earthed or unearthed) systems for rated voltages up to and including 1100 Volts. These cables can also be used on DC systems for rated voltages up to and including 1500 Volts to earth.

A. Technical Advantages:-

- 1.Higher current rating, higher short-circuit rating approximately 1.2 times that of PVC.
- 2.Thermosetting in nature.
- 3.Significantly higher insulation resistance and volume resistivity than pvc cables.
- 4.Higher resistance to moisture.
- 5.Better resistance to surge currents.
- 6.Low dielectric losses.
- 7.Better resistance to chemicals.
- 8.Longer service life.
- 9.Comparatively higher cable operating temperature 90°C and short-circuit temperature 250°C.

B. Commercial Advantages:-

- 1.Lower laying cost because of the comparatively smaller diameter of the cable and Lesser weight.
- 2.Lower installation charges as the diameter of the cable is comparatively smaller with a smaller bending radius, requiring less space for laying cables.
- 3.One size lower cable can be used as compared to PVC insulated cable.

Density of XLPE is lower than PVC.

For longer cable lengths, voltage drop shall be considered.

HIGHER ELECTRICAL STRENGTH RETENTION

HIGHER SHORT CIRCUIT RATING

**BETTER ELECTRICAL, MECHANICAL &
THERMAL PROPERTIES**

EASY JOINTING & TERMINATION



Advantages of SVK XLPE Cables

■ Selection of Cables :

Power cables are generally selected considering the application. However, the following factors are important for selecting of suitable cable construction required to transfer electrical energy from one end to the other.

1. Maximum operating voltage.
2. Fault level.
3. Load to be carried.
4. Possible overloading duration & magnitude.
5. Route length and voltage drop.
6. Mode of installation considering the installation environment such as ambient & ground temperature, as well as the chemical & physical properties of the soil, grouping factors, and arrangement of cables during installation.
7. Flame-retardant properties.

All sizes of SVK XLPE cables are designed for standard operating conditions in India and abroad.

The standards adopted are after duly considering the geographical/climatic conditions and general applications of power for utilities, distribution, and generation purposes.

The cables are manufactured conforming to Indian & International cable specifications for XLPE insulated cables.

Customer-specific requirements can also be met.

■ Basic assumptions :

The current rating given is based on the following assumptions:

- a) Maximum conductor temperature: 90°C
- b) Thermal resistivity of soil: 1.5 K·m/W
- c) Ground temperature: 30°C
- d) Ambient air temperature: 40°C
- e) Depth of laying (measured to): 750 mm

Weight, Dimension Data & Current Carrying Capacity of Cables

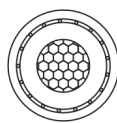


TABLE-I "SVK" SINGLE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED,

UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

650/1100 VOLTS										WEIGHT & DIMENSIONS									
Nominal Size of Conductor	Form of Conductor	Nominal Thickness of XLPE Insulation For U/A	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Nominal Thickness of XLPE Insulation for Armoured Cable	Formed Wire / Strip Armoured Cable				Round Wire Armoured Cable			Current Rating, *		*Normal Delivery Length		
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable		Nominal Dimension of Aluminium Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable.	Approx. Weight of Cable	Nominal Dimension of Aluminium Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground		In Air	
Sq.mm	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
4	Solid	0.70	-NA-	1.80	7.50	60	-	-	-	-	-	-	-	-	-	-	43	38	1000
4	Stranded	0.70	-NA-	1.80	8.00	65	-	-	-	-	-	-	-	-	-	-	43	38	1000
6	Solid	0.70	-NA-	1.80	8.00	70	-	-	-	-	-	-	-	-	-	-	55	50	1000
6	Stranded	0.70	-NA-	1.80	8.50	75	-	-	-	-	-	-	-	-	-	-	55	50	1000
10	Solid	0.70	-NA-	1.80	9.00	80	1.0	-	-	-	-	-	-	-	-	-	69	64	1000
10	Stranded	0.70	-NA-	1.80	9.50	90	1.0	-	-	-	-	-	-	-	-	-	69	64	1000
16	Stranded	0.70	-NA-	1.80	10.00	115	1.0	-	-	-	-	-	1.40	1.24	12.50	190	89	84	1000
25	Stranded	0.90	-NA-	1.80	12.00	155	1.20	-	-	-	-	-	1.40	1.24	14.00	247	115	112	1000
35	Stranded	0.90	-NA-	1.80	13.00	180	1.20	-	-	-	-	-	1.40	1.24	15.00	290	137	137	1000
50	Stranded	1.00	-NA-	1.80	14.00	240	1.30	-	-	-	-	-	1.40	1.24	16.50	342	161	165	1000
70	Stranded	1.10	-NA-	1.80	15.5	310	1.40	-	-	-	-	-	1.40	1.24	18.50	428	198	209	1000
95	Stranded	1.10	-NA-	1.80	17.50	385	1.40	4 x 0.80	1.40	18.60	494	1.60	1.40	20.20	560	243	264	1000	
120	Stranded	1.20	-NA-	1.80	19.5	470	1.50	4 x 0.80	1.40	20.40	589	1.60	1.40	22.50	665	276	308	1000	
150	Stranded	1.40	-NA-	2.00	21.50	600	1.70	4 x 0.80	1.40	22.5	694	1.60	1.40	24.00	779	308	350	1000	
185	Stranded	1.60	-NA-	2.00	23.50	710	1.90	4 x 0.80	1.40	24.5	827	1.60	1.40	26.50	921	349	406	1000	
240	Stranded	1.70	-NA-	2.00	26.00	900	2.00	4 x 0.80	1.40	26.60	1026	1.60	1.40	29.00	1121	404	480	1000	
300	Stranded	1.80	-NA-	2.00	28.50	1158	2.10	4 x 0.80	1.56	29.60	1235	1.60	1.56	31.50	1349	454	551	1000	
400	Stranded	2.00	-NA-	2.20	31.5	1385	2.40	4 x 0.80	1.56	33.00	1549	2.00	1.56	35.50	1739	518	647	500	
500	Stranded	2.20	-NA-	2.20	35.5	1650	2.60	4 x 0.80	1.56	36.70	1910	2.00	1.56	39.50	2128	588	751	500	
630	Stranded	2.40	-NA-	2.20	39.5	2100	2.80	4 x 0.80	1.72	40.50	2413	2.00	1.72	43.00	2660	663	868	500	
800	Stranded	2.60	-NA-	2.40	44.50	2730	3.10	4 x 0.80	1.72	46.00	2993	2.00	1.88	47.90	3296	740	992	500	
1000	Stranded	2.80	-NA-	2.60	48.50	3350	3.30	4 x 0.80	1.88	50.00	3667	2.50	2.04	54.37	4142	812	1117	500	

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables



WEIGHT & DIMENSIONS

650/1100 VOLTS

Nominal Size of Conductor	Form of Conductor	Nominal Thickness of XLPE Insulation For U/A	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Nominal Thickness of XLPE Insulation for Armoured Cable	Formed Wire / Strip Armoured Cable				Round Wire Armoured Cable				Current Rating.*		*Normal Delivery Length	
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable		Nominal Dimension of Aluminium Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of Aluminium Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground	In Air		
Sq.mm	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
4	Solid	0.70	-NA-	1.80	7.50	86	-	-	-	-	-	-	-	-	-	-	54	48	1000
4	Stranded	0.70	-NA-	1.80	8.00	88	-	-	-	-	-	-	-	-	-	-	54	48	1000
6	Solid	0.70	-NA-	1.80	8.00	109	-	-	-	-	-	-	-	-	-	-	67	61	1000
6	Stranded	0.70	-NA-	1.80	8.50	114	-	-	-	-	-	-	-	-	-	-	67	61	1000
10	Stranded	0.70	-NA-	1.80	9.50	152	1.00	-	-	-	-	-	1.40	1.24	12.00	219	90	83	1000
16	Stranded	0.70	-NA-	1.80	10.00	209	1.00	-	-	-	-	-	1.40	1.24	13.00	281	115	108	1000
25	Stranded	0.90	-NA-	1.80	12.00	309	1.20	-	-	-	-	-	1.40	1.24	14.00	390	148	144	1000
35	Stranded	0.90	-NA-	1.80	13.00	399	1.20	-	-	-	-	-	1.40	1.24	16.00	485	177	176	1000
50	Stranded	1.00	-NA-	1.80	14.00	513	1.30	-	-	-	-	-	1.40	1.24	17.00	608	208	212	1000
70	Stranded	1.10	-NA-	1.80	16.00	712	1.40	-	-	-	-	-	1.40	1.24	19.00	817	255	269	1000
95	Stranded	1.10	-NA-	1.80	17.50	940	1.40	4 x 0.80	1.40	18.60	1036	1.60	1.40	22.00	1102	312	340	1000	
120	Stranded	1.20	-NA-	1.80	19.00	1168	1.50	4 x 0.80	1.40	20.40	1264	1.60	1.40	23.50	1339	355	396	1000	
150	Stranded	1.40	-NA-	2.00	21.50	1444	1.70	4 x 0.80	1.40	22.20	1530	1.60	1.40	24.50	1615	396	450	1000	
185	Stranded	1.60	-NA-	2.00	23.50	1786	1.90	4 x 0.80	1.40	24.40	1890	1.60	1.40	26.50	1976	447	519	1000	
240	Stranded	1.70	-NA-	2.00	26.00	2299	2.00	4 x 0.80	1.40	26.60	2404	1.60	1.40	29.00	2508	515	613	1000	
300	Stranded	1.80	-NA-	2.00	28.50	2841	2.10	4 x 0.80	1.56	29.60	2974	1.60	1.56	31.50	3078	576	700	500	

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

■ TABLE-2 "SVK" SINGLE CORE COPPER CONDUCTOR, XLPE INSULATED,

UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

Weight, Dimension Data & Current Carrying Capacity of Cables



TABLE-3 "SVK" TWO CORE ALUMINIUM CONDUCTOR, XLPE INSULATED,

UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

650/1100 VOLTS

WEIGHT & DIMENSIONS

Nominal Size of Conductor	Form of Conductor Circular Shaped	Nominal Thickness of XLPE Insulation For U/A	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable			Round Wire Armoured Cable			Current Rating *		*Normal Delivery Length			
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of Aluminium Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of Aluminium Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable		In Ground	In Air	
Sq.mm	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	Kgs./Km	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.	
4	Solid	0.70	0.30	1.80	12.50	140	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	14.50	375	42	38	1000
4	Stranded	0.70	0.30	1.80	13.0	150	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	15.00	403	42	38	1000
6	Solid	0.70	0.30	1.80	13.50	170	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	15.50	437	55	50	1000
6	Stranded	0.70	0.30	1.80	14.0	180	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.50	465	55	50	1000
10	Solid	0.70	0.30	1.80	15.0	205	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.00	503	68	64	1000
10	Stranded	0.70	0.30	1.80	16.0	225	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	18.00	551	68	64	1000
16	Stranded	0.70	0.30	1.80	14.0	225	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.40	17.00	480	89	83	1000
25	Stranded	0.90	0.30	2.00	17.0	330	4 x 0.80	1.40	18.50	509	1.60	1.40	20.00	672	114	109	1000	
35	Stranded	0.90	0.30	2.00	19.0	410	4 x 0.80	1.40	20	606	1.60	1.40	22.00	776	136	133	1000	
50	Stranded	1.00	0.30	2.00	21.0	510	4 x 0.80	1.40	22.50	753	1.60	1.40	24.00	938	161	162	1000	
70	Stranded	1.10	0.30	2.00	23.0	675	4 x 0.80	1.56	22.50	989	1.60	1.56	27.00	1187	197	204	1000	
95	Stranded	1.10	0.40	2.20	26.50	893	4 x 0.80	1.56	28	1204	2.00	1.56	28.68	1573	235	251	1000	
120	Stranded	1.20	0.40	2.20	28.50	1050	4 x 0.80	1.56	30.50	1408	2.00	1.56	33.00	1849	266	287	500	
150	Stranded	1.40	0.40	2.20	32.0	1215	4 x 0.80	1.72	31.79	1690	2.00	1.72	36.00	2183	296	328	500	
185	Stranded	1.60	0.50	2.40	35.50	1510	4 x 0.80	1.72	34.95	2004	2.00	1.88	37.70	2598	335	379	500	
240	Stranded	1.70	0.50	2.60	39.50	1900	4 x 0.80	1.88	38.69	2480	2.50	2.04	45.00	3419	385	448	500	
300	Stranded	1.80	0.60	2.80	43.50	2360	4 x 0.80	2.04	42.53	2964	2.50	2.20	46.22	4019	432	513	500	

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables



WEIGHT & DIMENSIONS

TABLE-4 "SVK" TWO CORE COPPER CONDUCTOR, XLPE INSULATED,
UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

650/1100 VOLTS

Nominal Size of Conductor	Form of Conductor Circular Shaped	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable				Round Wire Armoured Cable				Current Rating *		*Normal Delivery Length
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground	In Air	
Sq.mm	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
4	Solid	0.70	0.30	1.80	12.50	165	-NA-	-NA-	-NA-	-NA-	1.40	1.24	14.00	408	54	48	1000
4	Stranded	0.70	0.30	1.80	13.00	175	-NA-	-NA-	-NA-	-NA-	1.40	1.24	14.50	427	54	48	1000
6	Solid	0.70	0.30	1.80	13.50	210	-NA-	-NA-	-NA-	-NA-	1.40	1.24	15.00	484	67	61	1000
6	Stranded	0.70	0.30	1.80	14.00	225	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.00	522	67	61	1000
10	Stranded	0.70	0.30	1.80	16.00	300	-NA-	-NA-	-NA-	-NA-	1.40	1.24	17.50	665	89	83	1000
16	Stranded	0.70	0.30	1.80	14.00	422	-NA-	-NA-	-NA-	-NA-	1.40	1.40	17.00	697	115	108	1000
25	Stranded	0.90	0.30	2.00	17.00	636	4 x 0.80	1.40	18.50	804.40	1.60	1.40	20.00	1002	147	140	1000
35	Stranded	0.90	0.30	2.00	19.00	817	4 x 0.80	1.40	20.00	1019.70	1.60	1.40	22.00	1224	176	172	1000
50	Stranded	1.00	0.30	2.00	21.00	1054	4 x 0.80	1.40	22.50	1311.00	1.60	1.40	24.00	1520	208	208	1000
70	Stranded	1.10	0.30	2.00	23.00	1453	4 x 0.80	1.56	25.50	1757.00	1.60	1.56	27.00	2004	253	262	1000
95	Stranded	1.10	0.40	2.20	26.50	1966	4 x 0.80	1.56	28.00	2289.00	2.00	1.56	30.50	2736	302	322	500
120	Stranded	1.20	0.40	2.20	28.50	2413	4 x 0.80	1.56	30.50	2755.00	2.00	1.56	33.00	3230	340	368	500
150	Stranded	1.40	0.40	2.20	32.00	2935	4 x 0.80	1.72	31.80	3353.00	2.00	1.72	36.00	3876	379	419	500
185	Stranded	1.60	0.50	2.40	35.50	3676	4 x 0.80	1.72	37.00	4094.00	2.00	1.88	40.00	4731	425	482	500

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables



650/1100 VOLTS

WEIGHT & DIMENSIONS

■ TABLE-5 "SVK" THREE CORE ALUMINIUM CONDUCTOR, XLPE INSULATED,

UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

Nominal Size of Conductor	Form of Conductor Circular Shaped	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable			Round Wire Armoured Cable				Current Rating. *		*Normal Delivery Length		
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground		In Air	
Sq.mm	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	mm	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
4	Solid	0.70	0.30	1.80	13.00	140	-NA-	-NA-	-NA-	-NA-	1.40	1.24	15.00	460	35	32	1000	
4	Stranded	0.70	0.30	1.80	13.50	160	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.00	399	35	32	1000	
6	Solid	0.70	0.30	1.80	14.50	170	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.00	530	46	42	1000	
6	Stranded	0.70	0.30	1.80	15.00	190	-NA-	-NA-	-NA-	-NA-	1.40	1.24	17.00	470	46	42	1000	
10	Solid	0.70	0.30	1.80	15.50	220	-NA-	-NA-	-NA-	-NA-	1.40	1.24	18.00	640	57	54	1000	
10	Stranded	0.70	0.30	1.80	17.00	230	-NA-	-NA-	-NA-	-NA-	1.40	1.24	18.50	551	57	54	1000	
16	Stranded	0.70	0.30	1.80	16.20	304	4 x 0.80	1.24	16.80	488	1.60	1.40	19.00	648	74	69	1000	
25	Stranded	0.90	0.30	2.00	19.50	446	4 x 0.80	1.40	20.10	671	1.60	1.40	21.70	855	95	93	1000	
35	Stranded	0.90	0.30	2.00	21.50	551	4 x 0.80	1.40	22.00	798	1.60	1.40	23.60	997	114	114	1000	
50	Stranded	1.00	0.30	2.00	24.50	693	4 x 0.80	1.40	24.80	960	1.60	1.56	26.80	1235	134	138	1000	
70	Stranded	1.10	0.40	2.20	28.00	950	4 x 0.80	1.56	28.50	1282	2.00	1.56	30.90	1729	164	175	500	
95	Stranded	1.10	0.40	2.20	30.80	1206	4 x 0.80	1.56	31.30	1577	2.00	1.56	33.70	2077	197	216	500	
120	Stranded	1.20	0.40	2.20	33.80	1463	4 x 0.80	1.56	34.30	1871	2.00	1.72	37.00	2422	223	249	500	
150	Stranded	1.40	0.50	2.40	37.90	1814	4 x 0.80	1.72	38.30	2100	2.00	1.88	41.10	2888	249	284	500	
185	Stranded	1.60	0.50	2.60	42.00	2242	4 x 0.80	1.88	42.30	2500	2.50	2.04	46.00	3733	282	329	500	
240	Stranded	1.70	0.60	2.80	46.90	2869	4 x 0.80	2.04	47.20	3382	2.50	2.20	50.90	4531	327	392	500	
300	Stranded	1.80	0.60	3.00	51.50	3505	4 x 0.80	2.20	51.80	4066	2.50	2.36	55.45	5339	369	452	500	

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables



TABLE-6 "SVK" THREE CORE COPPER CONDUCTOR, XLPE INSULATED,
UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART - 1

650/1100 VOLTS

WEIGHT & DIMENSIONS

Nominal Size of Conductor	Form of Conductor Circular Shaped	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable			Round Wire Armoured Cable			Current Rating, *		*Normal Delivery Length			
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable		In Ground	In Air	
Sq.mm	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	Kgs./Km	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.	
4	Solid	0.70	0.30	1.80	13.00	210	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	15.00	530	45	41	1000
4	Stranded	0.70	0.30	1.80	13.50	232	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.00	460	45	41	1000
6	Solid	0.70	0.30	1.80	14.00	280	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.00	640	56	52	1000
6	Stranded	0.70	0.30	1.80	15.00	299	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	17.00	551	56	52	1000
10	Stranded	0.70	0.30	1.80	16.50	415	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	19.00	722	74	70	1000
16	Stranded	0.70	0.30	1.80	16.20	425	4 x 0.80	1.24	16.80	772.30	1.60	1.40	18.80	921	95	89	1000	
25	Stranded	0.90	0.30	2.00	19.50	874	4 x 0.80	1.40	20.10	1102	1.60	1.40	21.70	1282	122	119	1000	
35	Stranded	0.90	0.30	2.00	21.50	1150	4 x 0.80	1.40	22.00	1396	1.60	1.40	23.60	1596	146	147	1000	
50	Stranded	1.00	0.30	2.00	24.50	1501	4 x 0.80	1.40	24.80	1767	1.60	1.56	26.80	2042	173	179	1000	
70	Stranded	1.10	0.40	2.20	28.00	2118	4 x 0.80	1.56	28.50	2441	2.00	1.56	30.90	2888	212	226	500	
95	Stranded	1.10	0.40	2.20	30.80	2821	4 x 0.80	1.56	31.30	3182	2.00	1.56	33.70	3686	254	279	500	
120	Stranded	1.20	0.40	2.20	33.80	3496	4 x 0.80	1.56	34.30	3895	2.00	1.72	37.00	4455	287	320	500	
150	Stranded	1.40	0.50	2.40	37.90	4322	4 x 0.80	1.72	38.30	4759	2.00	1.88	41.10	5396	321	365	500	
185	Stranded	1.60	0.50	2.60	42.00	5377	4 x 0.80	1.88	42.30	5852	2.50	2.04	46.00	6868	362	422	500	

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables

■ **TABLE-7 "SVK" THREE AND HALF CORE ALUMINIUM CONDUCTOR, XLPE INSULATED**

UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART - 1



650/1100 VOLTS

WEIGHT & DIMENSIONS

Nominal Size of Conductor	Form of Conductor Circular Shaped	Nominal Thickness of XLPE Insulation Main / Neutral	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable			Round Wire Armoured Cable				Current Rating.*		*Normal Delivery Length		
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground		In Air	
Sq.mm		mm mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
25/16	Stranded	0.90 0.70	0.30	2.00	21.30	525	4 x 0.80	1.40	21.90	733	1.60	1.40	23.60	969	95	93	1000	
35/16	Stranded	0.90 0.70	0.30	2.00	23.60	625	4 x 0.80	1.40	24.20	886	1.60	1.40	25.80	1139	114	114	1000	
50/25	Stranded	1.00 0.90	0.30	2.00	26.80	800	4 x 0.80	1.40	27.40	1113	1.60	1.56	29.50	1387	134	138	1000	
70/35	Stranded	1.10 0.90	0.40	2.20	31.00	1100	4 x 0.80	1.56	31.50	1451	2.00	1.56	34.00	1938	164	175	500	
95/50	Stranded	1.10 1.00	0.40	2.20	34.30	1400	4 x 0.80	1.56	34.80	1796	2.00	1.56	37.20	2356	197	216	500	
120/70	Stranded	1.20 1.10	0.40	2.20	37.50	1650	4 x 0.80	1.72	38.50	2199	2.00	1.72	41.00	2800	223	249	500	
150/70	Stranded	1.40 1.10	0.50	2.40	41.00	2000	4 x 0.80	1.72	42.00	2579	2.00	1.88	45.00	3296	249	284	500	
185/95	Stranded	1.60 1.10	0.50	2.60	46.50	2550	4 x 0.80	1.88	47.20	3156	2.50	2.04	50.00	4313	282	329	500	
240/120	Stranded	1.70 1.20	0.60	2.80	52.50	3200	4 x 0.80	2.04	52.70	3913	2.50	2.20	56.00	5196	327	392	500	
300/150	Stranded	1.80 1.40	0.60	3.00	56.00	4000	4 x 0.80	2.20	57.00	4693	2.50	2.36	61.00	6108	369	452	500	

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables



TABLE-8 "SVK" THREE AND HALF CORE COPPER CONDUCTOR, XLPE INSULATED

UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART - 1

650/1100 VOLTS

WEIGHT & DIMENSIONS

Nominal Size of Conductor	Form of Conductor	Nominal Thickness of XLPE Insulation Main / Neutral	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable				Round Wire Armoured Cable				Current Rating.*		*Normal Delivery Length	
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground	In Air		
Sq.mm		mm mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
25/16	Stranded	0.90 0.70	0.30	2.00	21.30	1035	4 x 0.80	1.40	21.90	1272	1.60	1.40	23.60	1491	122	119	1000	
35/16	Stranded	0.90 0.70	0.30	2.00	23.60	1311	4 x 0.80	1.40	24.20	1586	1.60	1.40	25.80	1824	146	147	1000	
50/25	Stranded	1.00 0.90	0.30	2.00	26.80	1748	4 x 0.80	1.40	27.40	2061	1.60	1.56	29	2337	173	179	1000	
70/35	Stranded	1.10 0.90	0.40	2.20	31	2460	4 x 0.80	1.56	31.50	2831	2.00	1.56	33.90	3296	212	226	500	
95/50	Stranded	1.10 1.00	0.40	2.20	34.30	3287	4 x 0.80	1.56	34.80	3686	2.00	1.56	37.20	4237	254	279	500	
120/70	Stranded	1.20 1.10	0.40	2.20	37.60	4142	4 x 0.80	1.72	38.50	4617	2.00	1.72	41	5225	287	320	500	
150/70	Stranded	1.40 1.10	0.50	2.40	42.30	4987	4 x 0.80	1.72	42.70	5481	2.00	1.88	45	6194	321	365	500	
185/95	Stranded	1.60 1.10	0.50	2.60	46.80	6279	4 x 0.80	1.88	47.20	6830	2.50	2.04	50	7989	362	422	500	

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables



■ **TABLE-9 "SVK" FOUR CORE ALUMINIUM CONDUCTOR, XLPE INSULATED,**

UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-1

650/1100 VOLTS

WEIGHT & DIMENSIONS

Nominal Size of Conductor	Form of Conductor Circular Shaped	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable				Round Wire Armoured Cable				Current Rating, *		*Normal Delivery Length	
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground	In Air		
Sq.mm		mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	mm	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
4	Solid	0.70	0.30	1.80	13.50	160	-NA-	-NA-	-NA-	-NA-	1.40	1.24	15.30	413	35	32	1000	
4	Stranded	0.70	0.30	1.80	14.20	180	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.00	435	35	32	1000	
6	Solid	0.70	0.30	1.80	14.70	200	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.50	473	46	42	1000	
6	Stranded	0.70	0.30	1.80	15.50	215	-NA-	-NA-	-NA-	-NA-	1.40	1.24	17.30	506	46	42	1000	
10	Solid	0.70	0.30	1.80	16.60	250	-NA-	-NA-	-NA-	-NA-	1.40	1.40	18.60	592	57	54	1000	
10	Stranded	0.70	0.30	1.80	17.50	260	-NA-	-NA-	-NA-	-NA-	1.40	1.40	19.80	633	57	54	1000	
16	Stranded	0.70	0.30	1.80	17.80	350	4 x 0.80	1.40	20	608	1.60	1.40	21.00	795	74	69	1000	
25	Stranded	0.90	0.30	2.00	21.00	550	4 x 0.80	1.40	23	829	1.60	1.40	25.00	1045	95	93	500	
35	Stranded	0.90	0.30	2.00	23.50	680	4 x 0.80	1.40	25	997	1.60	1.40	26.50	1244	114	114	500	
50	Stranded	1.00	0.30	2.00	26.00	875	4 x 0.80	1.56	28	1235	1.60	1.56	29.50	1520	134	138	500	
70	Stranded	1.10	0.40	2.20	30.50	1200	4 x 0.80	1.56	32	1615	2.00	1.56	34.00	2137	164	175	500	
95	Stranded	1.10	0.40	2.20	33.50	1530	4 x 0.80	1.56	35	2014	2.00	1.72	38.00	2622	197	216	500	
120	Stranded	1.20	0.50	2.40	37.50	1850	4 x 0.80	1.72	39	2403	2.00	1.88	42.00	3087	223	249	500	
150	Stranded	1.40	0.50	2.60	42.00	2280	4 x 0.80	1.88	43	2888	2.50	2.04	47.00	3980	249	284	500	
185	Stranded	1.60	0.50	2.80	46.50	2800	4 x 0.80	2.04	48	3505	2.50	2.20	52.00	4721	282	329	500	
240	Stranded	1.70	0.60	26.00	52.50	3700	4 x 0.80	2.20	54	4389	2.50	2.36	57.50	5709	327	392	500	
300	Stranded	1.80	0.70	3.20	58.00	4600	4 x 0.80	2.36	59.50	5291	3.15	2.52	64.50	7372	369	452	500	

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.



TABLE-10 "SVK" FOUR CORE COPPER CONDUCTOR, XLPE INSULATED,

UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART - 1

650/1100 VOLTS

WEIGHT & DIMENSIONS

Nominal Size of Conductor	Form of Conductor Circular Shaped	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable			Round Wire Armoured Cable				Current Rating, *		*Normal Delivery Length		
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground		In Air	
Sq.mm	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
4	Solid	0.70	0.30	1.80	13.50	260	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	15.30	503	45	41	1000
4	Stranded	0.70	0.30	1.80	14.20	280	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.00	533	45	41	1000
6	Solid	0.70	0.30	1.80	14.70	350	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.50	618	56	52	1000
6	Stranded	0.70	0.30	1.80	15.50	365	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	17.30	646	56	52	1000
10	Stranded	0.70	0.30	1.80	17.80	510	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.40	19.80	870	74	70	1000
16	Stranded	0.70	0.30	2.00	17.50	741	4 x 0.80	1.40	1.40	969	1.60	1.40	1.40	21.00	1159	95	89	1000
25	Stranded	0.90	0.30	2.00	21.00	1140	4 x 0.80	1.40	1.40	1406	1.60	1.40	1.40	25.00	1615	122	119	500
35	Stranded	0.90	0.30	2.00	23.50	1491	4 x 0.80	1.40	1.40	1786	1.60	1.40	1.40	26.50	2033	146	147	500
50	Stranded	1.00	0.30	2.00	26.00	1957	4 x 0.80	1.56	1.56	2308	1.60	1.56	1.56	29.50	2593	173	179	500
70	Stranded	1.10	0.40	2.20	30.50	2774	4 x 0.80	1.56	1.56	3154	2.00	1.56	1.56	34.00	3686	212	226	500
95	Stranded	1.10	0.40	2.20	33.50	3714	4 x 0.80	1.56	1.72	4161	2.00	1.72	1.72	38.00	4769	254	279	500
120	Stranded	1.20	0.50	2.40	37.50	4645	4 x 0.80	1.72	1.88	5101	2.00	1.88	1.88	42.00	5795	287	320	500
150	Stranded	1.40	0.50	2.60	42.00	5719	4 x 0.80	1.88	43.50	6232	2.50	2.04	2.04	47.00	7324	321	365	500
185	Stranded	1.60	0.50	2.80	46.50	7125	4 x 0.80	2.04	48.00	7676	2.50	2.20	2.20	52.00	8901	362	422	500

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables

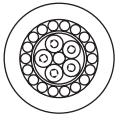


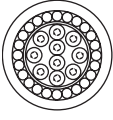
TABLE-II "SVK" 650/1100 VOLTS MULTICORE CONTROL CABLE WITH SOLID COPPER CONDUCTOR OF SIZE 1.5 SQ.MM XLPE INSULATED
UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART - 1

SOLID & STRANDED \$		WEIGHT & DIMENSIONS										Current Rating, *		*Normal Delivery Length
		Unarmoured Cable			Formed Wire / Strip Armoured Cable			Round Wire Armoured Cable				In Ground	In Air	
Number of Cores	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	
Sq.mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Mtrs.
2	0.70	0.30	1.80	10	140	-NA-	-NA-	-NA-	-NA-	1.40	1.24	11.90	288	31
3	0.70	0.30	1.80	10.50	160	-NA-	-NA-	-NA-	-NA-	1.40	1.24	12.40	302	26
4	0.70	0.30	1.80	11.50	171	-NA-	-NA-	-NA-	-NA-	1.40	1.24	13.10	349	26
5	0.70	0.30	1.80	12.10	195	-NA-	-NA-	-NA-	-NA-	1.40	1.24	13.90	385	26
6	0.70	0.30	1.80	12.90	222	-NA-	-NA-	-NA-	-NA-	1.40	1.24	14.70	432	23
7	0.70	0.30	1.80	12.90	239	-NA-	-NA-	-NA-	-NA-	1.40	1.24	14.70	450	20
8	0.70	0.30	1.80	14.00	275	-NA-	-NA-	-NA-	-NA-	1.40	1.24	16.50	494	17
9	0.70	0.30	1.80	15.00	308	-NA-	-NA-	-NA-	-NA-	1.40	1.24	17.50	542	17
10	0.70	0.30	1.80	15.70	327	-NA-	-NA-	-NA-	-NA-	1.40	1.24	17.50	594	17
12	0.70	0.30	1.80	16.10	365	-NA-	-NA-	-NA-	-NA-	1.40	1.24	18.00	646	16
14	0.70	0.30	1.80	16.80	413	-NA-	-NA-	-NA-	-NA-	1.40	1.40	18.90	709	16
16	0.70	0.30	1.80	17.70	460	4 x 0.80	1.40	18.50	651	1.60	1.40	20.10	807	14
19	0.70	0.30	1.80	18.50	513	4 x 0.80	1.40	19.30	736	1.60	1.40	20.90	900	14
21	0.70	0.30	2.00	19.80	560	4 x 0.80	1.40	20.20	788	1.60	1.40	21.80	960	12
24	0.70	0.30	2.00	21.70	627	4 x 0.80	1.40	22.10	874	1.60	1.40	23.70	1094	12
27	0.70	0.30	2.00	22.10	684	4 x 0.80	1.40	22.50	950	1.60	1.40	24.10	1152	11
30	0.70	0.30	2.00	22.80	741	4 x 0.80	1.40	23.20	1016	1.60	1.40	24.90	1229	11
33	0.70	0.30	2.00	23.70	807	4 x 0.80	1.40	24.10	1102	1.60	1.40	25.70	1322	11
37	0.70	0.30	2.00	24.50	874	4 x 0.80	1.40	24.90	1168	1.60	1.40	26.50	1415	11
44	0.70	0.30	2.00	27.30	1026	4 x 0.80	1.40	27.70	1358	1.60	1.56	29.70	1662	9
52	0.70	0.30	2.00	28.40	1178	4 x 0.80	1.56	29.20	1548	1.60	1.56	30.90	1833	9
61	0.70	0.40	2.20	30.70	1387	4 x 0.80	1.56	31.10	1757	2.00	1.56	33.50	2251	8

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is $\pm 5\%$. Length more than normal as per customer request.

Weight, Dimension Data & Current Carrying Capacity of Cables



■ TABLE-12 "SVK" 650/1100 VOLTS MULTICORE CONTROL WITH SOLID COPPER CONDUCTOR OF SIZE 2.5 SQ.MMXLPE INSULATED

UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART -1

SOLID & STRANDED \$

WEIGHT & DIMENSIONS

Number of Cores	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable				Round Wire Armoured Cable				Current Rating.*		*Normal Delivery Length	
			Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground	In Air		
Sq.mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs
2	0.70	0.30	1.80	10.90	173	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	12.70	342	41	36	1000
3	0.70	0.30	1.80	11.40	202	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	13.20	360	34	30	1000
4	0.70	0.30	1.80	12.20	218	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	14	406	34	30	1000
5	0.70	0.30	1.80	13.10	254	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	14.90	464	34	30	1000
6	0.70	0.30	1.80	14.00	291	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	15.90	522	31	27	1000
7	0.70	0.30	1.80	14.00	313	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	15.90	549	27	23	1000
8	0.70	0.30	1.80	16.00	342	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.24	17	608	23	20	1000
9	0.70	0.30	1.80	16.50	385	-NA-	-NA-	-NA-	-NA-	-NA-	1.40	1.40	18.50	684	23	20	1000
10	0.70	0.30	1.80	17.20	427	4 x 0.80	1.24	17.80	624	1.60	1.40	1.40	19.60	789	23	20	1000
12	0.70	0.30	1.80	17.70	484	4 x 0.80	1.40	18.50	694	1.60	1.40	1.40	20.10	865	20	18	1000
14	0.70	0.30	1.80	18.50	551	4 x 0.80	1.40	19.30	780	1.60	1.40	1.40	20.90	944	20	18	1000
16	0.70	0.30	2.00	19.80	636	4 x 0.80	1.40	20.20	867	1.60	1.40	1.40	21.90	1023	18	16	1000
19	0.70	0.30	2.00	20.80	722	4 x 0.80	1.40	21.20	960	1.60	1.40	1.40	22.80	1147	18	16	1000
21	0.70	0.30	2.00	21.80	769	4 x 0.80	1.40	22.20	1016	1.60	1.40	1.40	23.90	1243	16	14	500
24	0.70	0.30	2.00	24.00	864	4 x 0.80	1.40	24.40	1159	1.60	1.40	1.40	26	1387	16	14	500
27	0.70	0.30	2.00	24.50	950	4 x 0.80	1.40	24.90	1235	1.60	1.40	1.40	26.50	1482	14	13	500
30	0.70	0.30	2.00	25.30	1035	4 x 0.80	1.40	25.70	1349	1.60	1.40	1.40	27.30	1586	14	13	500
33	0.70	0.30	2.00	26.20	1130	4 x 0.80	1.40	26.60	1437	1.60	1.56	1.56	28.60	1729	14	13	500
37	0.70	0.30	2.00	27.20	1235	4 x 0.80	1.40	27.60	1567	2.00	1.56	1.56	29.60	1852	14	13	500
44	0.70	0.40	2.20	30.90	1501	4 x 0.80	1.56	31.30	1862	2.00	1.56	1.56	33.70	2356	12	11	500
52	0.70	0.40	2.20	32.20	1719	4 x 0.80	1.56	32.60	2109	2.00	1.56	1.56	35	2631	12	11	500
61	0.70	0.40	2.20	34.10	1976	4 x 0.80	1.56	34.50	2375	2.00	1.56	1.56	36.90	2926	12	11	500

The above data is approximate and subject to manufacturing tolerances.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.

Rating Factors

■ **Table 1 Rating factors for variation in ambient air temperature for cables in free air**

Maximum conductor temperature	Ambient air temperature °C							
°C	15	30	35	40	45	50	55	60
90	1.14	1.10	1.05	1	0.96	0.89	0.87	0.77

■ **Table 2 Rating factors for variation in ground temperature for direct buried cables**

Maximum conductor temperature	Ground temperature °C							
°C	15	20	25	30	35	40	45	50
90	1.12	1.08	1.04	1	0.96	0.91	0.87	0.82

■ **Table 3 Rating factors for variation in ground temperature for cables in ducts**

Maximum conductor temperature	Ground temperature °C							
°C	15	20	25	30	35	40	45	50
90	1.12	1.08	1.04	1	0.96	0.91	0.87	0.82

■ **Table 4 Rating factors for depths of laying for direct buried cables**

Depth of laying mm	Up to 25 mm ²		Above 25 mm ² Up to 300 mm ²		Above 300 mm ²	
	Single-core	Multi-core	Single-core	Multi-core	Single-core	Multi-core
750	1	1	1	1	1	1
900	0.98	0.98	0.98	0.98	0.98	0.98
1050	0.97	0.98	0.96	0.97	0.96	0.96
1200	0.96	0.97	0.95	0.95	0.94	0.95
1500	0.94	0.95	0.93	0.93	0.92	0.93
1800	0.93	0.93	0.91	0.92	0.9	0.91
2000	0.92	0.93	0.90	0.91	0.89	0.90
2500	0.90	0.92	0.89	0.89	0.87	0.88
3000	0.90	0.90	0.87	0.88	0.86	0.87

Rating Factors

■ **Table 5 Rating factors for depths of laying for cables in ducts**

Depth of laying mm	Up to 25 mm ²		Above 25 mm ² Up to 300 mm ²	
	Single-core	Multi-core	Single-core	Multi-core
750	1	1	1	1
900	0.98	0.98	0.98	0.99
1050	0.97	0.98	0.96	0.97
1200	0.96	0.97	0.95	0.97
1500	0.94	0.96	0.93	0.95
1800	0.93	0.95	0.91	0.94
2000	0.92	0.94	0.90	0.93
2500	0.90	0.93	0.88	0.92
3000	0.89	0.92	0.87	0.91

■ **Table 6 Rating factors for variations in soil thermal resistivities for two single-core cables laid direct in ground**

Nominal area of conductor mm ²	Values of soil thermal resistivity K.m/W					
	1	1.2	1.5	2	2.5	3
1.50	1.16	1.09	1	0.91	0.81	0.75
2.50	1.16	1.09	1	0.89	0.81	0.75
4	1.17	1.09	1	0.89	0.81	0.75
6	1.17	1.09	1	0.89	0.81	0.75
10	1.17	1.09	1	0.89	0.80	0.74
16	1.17	1.09	1	0.89	0.80	0.74
25	1.18	1.09	1	0.89	0.80	0.74
35	1.18	1.10	1	0.88	0.80	0.73
50	1.19	1.10	1	0.88	0.80	0.73
70	1.19	1.10	1	0.88	0.80	0.73
95	1.19	1.10	1	0.88	0.79	0.73
120	1.19	1.10	1	0.88	0.79	0.73
150	1.19	1.10	1	0.88	0.79	0.73
185	1.19	1.10	1	0.88	0.79	0.72
240	1.20	1.10	1	0.88	0.79	0.72
300	1.20	1.10	1	0.88	0.79	0.72
400	1.20	1.10	1	0.88	0.79	0.72
500	1.20	1.11	1	0.87	0.79	0.72
630	1.20	1.11	1	0.87	0.79	0.72
800	1.20	1.11	1	0.87	0.79	0.72
1000	1.20	1.11	1	0.87	0.79	0.72

Rating Factors

■ **Table 7 Rating factors for variations in soil thermal resistivities for two single-core cables laid in buried duct**

Nominal area of conductor mm ²	Values of soil thermal resistivity K.m/W					
	1	1.2	1.5	2	2.5	3
1.50	1.16	1.09	1	0.91	0.81	0.75
2.50	1.16	1.09	1	0.89	0.81	0.75
4	1.17	1.09	1	0.89	0.81	0.75
6	1.17	1.09	1	0.89	0.81	0.75
10	1.17	1.09	1	0.89	0.80	0.74
16	1.17	1.09	1	0.89	0.80	0.74
25	1.18	1.09	1	0.89	0.80	0.74
35	1.18	1.10	1	0.88	0.80	0.73
50	1.19	1.10	1	0.88	0.80	0.73
70	1.19	1.10	1	0.88	0.80	0.73
95	1.19	1.10	1	0.88	0.79	0.73
120	1.19	1.10	1	0.88	0.79	0.73
150	1.19	1.10	1	0.88	0.79	0.73
185	1.19	1.10	1	0.88	0.79	0.72
240	1.20	1.10	1	0.88	0.79	0.72
300	1.20	1.10	1	0.88	0.79	0.72
400	1.20	1.10	1	0.88	0.79	0.72
500	1.20	1.11	1	0.87	0.79	0.72
630	1.20	1.11	1	0.87	0.79	0.72
800	1.20	1.11	1	0.87	0.79	0.72
1000	1.20	1.11	1	0.87	0.79	0.72

■ **Table 8 Rating factors for variations in soil thermal resistivities for three single-core cables laid direct in ground**

Nominal area of conductor mm ²	Values of soil thermal resistivity K.m/W					
	1	1.2	1.5	2	2.5	3
1.50	1.14	1.07	1	0.89	0.80	0.75
2.50	1.17	1.08	1	0.89	0.80	0.75
4	1.17	1.09	1	0.88	0.79	0.73
6	1.17	1.09	1	0.88	0.79	0.73
10	1.18	1.09	1	0.88	0.79	0.73
16	1.18	1.10	1	0.88	0.79	0.72
25	1.19	1.10	1	0.88	0.79	0.72
35	1.19	1.10	1	0.88	0.79	0.72
50	1.19	1.10	1	0.88	0.79	0.72
70	1.20	1.11	1	0.88	0.79	0.72
95	1.20	1.11	1	0.87	0.79	0.72
120	1.20	1.11	1	0.87	0.79	0.72
150	1.20	1.11	1	0.87	0.79	0.72
185	1.20	1.11	1	0.87	0.78	0.72
240	1.20	1.11	1	0.87	0.78	0.72
300	1.20	1.11	1	0.87	0.78	0.72
400	1.20	1.11	1	0.87	0.78	0.72
500	1.21	1.11	1	0.87	0.78	0.72
630	1.21	1.11	1	0.87	0.78	0.72
800	1.21	1.11	1	0.87	0.78	0.72
1000	1.21	1.11	1	0.87	0.78	0.72

■ **Table 9 Rating factors for variations in soil thermal resistivities for three single-core cables laid in buried duct**

Nominal area of conductor mm ²	Values of soil thermal resistivity K.m/W					
	1	1.2	1.5	2	2.5	3
1.50	1.08	1.04	1	0.92	0.88	0.84
2.50	1.08	1.05	1	0.93	0.88	0.84
4	1.08	1.05	1	0.93	0.87	0.83
6	1.09	1.06	1	0.93	0.87	0.83
10	1.10	1.06	1	0.93	0.87	0.82
16	1.10	1.06	1	0.93	0.87	0.82
25	1.10	1.06	1	0.93	0.87	0.82
35	1.10	1.06	1	0.93	0.86	0.81
50	1.11	1.06	1	0.92	0.86	0.81
70	1.11	1.06	1	0.92	0.86	0.80
95	1.12	1.06	1	0.92	0.85	0.80
120	1.12	1.06	1	0.91	0.85	0.79
150	1.12	1.07	1	0.91	0.85	0.79
185	1.12	1.07	1	0.91	0.84	0.79
240	1.12	1.07	1	0.91	0.84	0.78
300	1.13	1.07	1	0.91	0.84	0.78
400	1.13	1.07	1	0.91	0.84	0.78
500	1.13	1.07	1	0.90	0.83	0.78
630	1.13	1.07	1	0.90	0.83	0.77
800	1.14	1.08	1	0.90	0.83	0.77
1000	1.14	1.08	1	0.90	0.82	0.77

Rating Factors

■ **Table 10 Rating factors for variations in soil thermal resistivities for multi-core cables laid direct in ground**

Nominal area of conductor mm ²	Values of soil thermal resistivity K.m/W					
	1	1.2	1.5	2	2.5	3
1.50	1.14	1.08	1	0.90	0.83	0.77
2.50	1.15	1.08	1	0.90	0.82	0.76
4	1.15	1.08	1	0.89	0.82	0.76
6	1.16	1.09	1	0.89	0.81	0.75
10	1.16	1.09	1	0.89	0.81	0.75
16	1.17	1.09	1	0.89	0.80	0.74
25	1.17	1.09	1	0.89	0.80	0.74
35	1.18	1.10	1	0.88	0.80	0.74
50	1.18	1.10	1	0.88	0.80	0.74
70	1.18	1.10	1	0.88	0.80	0.74
95	1.18	1.10	1	0.88	0.80	0.73
120	1.18	1.10	1	0.88	0.80	0.73
150	1.18	1.10	1	0.88	0.80	0.73
185	1.18	1.10	1	0.88	0.80	0.73
240	1.19	1.10	1	0.88	0.80	0.73
300	1.19	1.10	1	0.88	0.80	0.73

Rating Factors

■ Table I I Rating factors for variations in soil thermal resistivities for multi-core cables laid in buried duct

Nominal area of conductor mm ²	Values of soil thermal resistivity K.m/W					
	1	1.2	1.5	2	2.5	3
1.50	1.05	1.03	1	0.96	0.92	0.88
2.50	1.05	1.03	1	0.95	0.91	0.88
4	1.06	1.03	1	0.95	0.91	0.87
6	1.06	1.03	1	0.95	0.91	0.87
10	1.06	1.04	1	0.95	0.90	0.86
16	1.06	1.04	1	0.95	0.90	0.86
25	1.07	1.04	1	0.95	0.90	0.86
35	1.07	1.04	1	0.94	0.90	0.85
50	1.07	1.04	1	0.94	0.89	0.85
70	1.07	1.04	1	0.94	0.89	0.84
95	1.08	1.04	1	0.94	0.88	0.84
120	1.08	1.05	1	0.94	0.88	0.84
150	1.08	1.05	1	0.93	0.88	0.83
185	1.08	1.05	1	0.93	0.88	0.83
240	1.09	1.05	1	0.93	0.87	0.83
300	1.09	1.05	1	0.93	0.87	0.82
400	1.09	1.05	1	0.93	0.87	0.82

Rating Factors

■ Table 12 Current rating (D.C.) for Two single core cable with XLPE Insulation and rated voltage 1500 V

Nominal area of conductor mm ²	Buried Direct in the Ground		In Single-Way Ducts		In Air	
	Copper	Aluminium	Copper	Aluminium	Copper	Aluminium
1.50	32	26	27	22	28	22
2.50	42	32	36	28	37	28
4	54		46	36	48	38
6	67	55	57	47	61	50
10	90	69	76	58	83	64
16	115	89	97	75	108	84
25	148	115	124	96	144	112
35	177	137	148	115	176	137
50	208	161	174	135	212	165
70	255	198	213	165	269	209
95	314	243	258	200	342	265
120	358	278	293	227	399	310
150	401	310	328	254	455	352
185	455	352	371	288	528	409
240	528	409	431	334	628	487
300	598	463	487	377	726	561
400	687	533	558	433	857	664
500	790	613	640	497	1008	1782
630	911	705	736	570	1189	921
800	1046	809	843	652	1398	1082
1000	1190	923	956	741	1629	1264



Rating Factors

■ **Table I3 Current rating (D.C.) for Two core cable with XLPE Insulation and rated voltage I 500 V**

Nominal area of conductor mm ²	Buried Direct in the Ground		In Single-Way Ducts		In Air	
	Copper	Aluminium	Copper	Aluminium	Copper	Aluminium
1.50	31	26	27	22	27	22
2.50	41	32	35	27	36	28
4	54	42	45	36	48	38
6	67	55	56	46	61	50
10	89	68	75	57	83	64
16	115	89	96	74	108	84
25	147	114	122	95	141	109
35	176	137	146	113	172	133
50	209	162	174	134	209	162
70	256	198	213	165	265	205
95	306	237	255	198	326	253
120	347	269	290	225	375	290
150	389	301	326	252	430	332
185	441	342	370	287	498	386
240	513	397	432	334	595	461
300	581	449	490	379	689	533
400	666	516	563	436	807	626
500	764	593	647	502	948	735
630	883	684	749	580	1123	870

■ **Table 1 Group rating factors for circuits of two single-core cables laid direct in the ground, horizontal formation**

Number of circuits	Spacing between group centres mm				
	Touching	150	300	450	600
2	0.80	0.85	0.90	0.92	0.95
3	0.70	0.78	0.85	0.88	0.91
4	0.64	0.73	0.81	0.86	0.89
5	0.59	0.70	0.79	0.84	0.88
6	0.55	0.67	0.77	0.83	0.87
7	0.53	0.65	0.76	0.82	0.86
8	0.51	0.64	0.75	0.82	0.86
9	0.49	0.63	0.74	0.81	0.85
10	0.48	0.63	0.74	0.81	0.85
11	0.47	0.62	0.73	0.80	0.84
12	0.46	0.61	0.73	0.80	0.84

■ **Table 2 Group rating factors for circuits of three single-core cables laid direct in the ground, horizontal formation**

Number of circuits	Spacing between group centres mm				
	Touching	150	300	450	600
2	0.77	0.81	0.86	0.88	0.89
3	0.67	0.71	0.78	0.81	0.83
4	0.61	0.64	0.72	0.76	0.80
5	0.57	0.60	0.69	0.74	0.77
6	0.53	0.57	0.66	0.72	0.75
7	0.51	0.55	0.64	0.70	0.74
8	0.49	0.53	0.63	0.69	0.73
9	0.47	0.52	0.62	0.68	0.73
10	0.45	0.51	0.61	0.67	0.72
11	0.44	0.50	0.60	0.66	0.72
12	0.43	0.49	0.59	0.65	0.71

■ Table 3 Group rating factors for circuits of three single-core cables in single-way ducts

Number of circuits	Spacing between duct group centres mm				
	Touching	150	300	450	600
2	0.78	0.83	0.87	0.90	0.91
3	0.66	0.73	0.78	0.82	0.85
4	0.59	0.67	0.74	0.78	0.82
5	0.55	0.63	0.70	0.76	0.80
6	0.51	0.61	0.68	0.74	0.78
7	0.48	0.58	0.66	0.73	0.77
8	0.46	0.57	0.65	0.72	0.76
9	0.44	0.55	0.64	0.71	0.76
10	0.43	0.54	0.63	0.70	-
11	0.42	0.53	0.62	0.69	-
12	0.40	0.51	0.61	0.69	-

■ Table 4 Group rating factors for multi-core cables laid direct in the ground, in tier formation

Number of cables	Number of tiers	Spacing between cable centres mm				
		Touching	150	300	450	600
2	1	0.80	0.84	0.87	0.90	0.91
3	1	0.68	0.74	0.79	0.83	0.86
4	2	0.60	0.66	0.73	0.77	0.79
5	2	0.55	0.61	0.68	0.71	0.73
6	2	0.51	0.57	0.63	0.67	0.69
7	3	0.48	0.54	0.59	0.63	0.64
8	3	0.46	0.51	0.56	0.60	0.61
9	3	0.44	0.48	0.53	0.57	0.58
10	4	0.42	0.47	0.52	0.55	0.56
11	4	0.41	0.46	0.50	0.54	0.55
12	4	0.40	0.45	0.49	0.53	0.54

■ Table 5 Group rating factors for multi-core cables laid direct in the ground, in horizontal formation

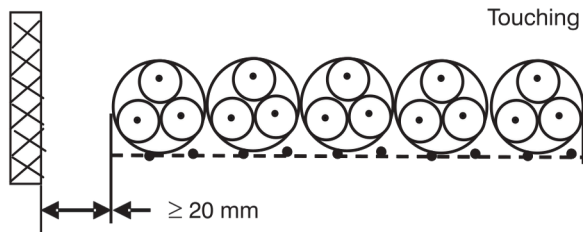
Number of cables	Spacing between cable centres mm				
	Touching	150	300	450	600
2	0.80	0.84	0.87	0.90	0.91
3	0.68	0.74	0.79	0.83	0.86
4	0.62	0.69	0.75	0.80	0.83
5	0.58	0.65	0.72	0.77	0.80
6	0.55	0.62	0.69	0.75	0.78
7	0.52	0.59	0.67	0.73	0.77
8	0.50	0.57	0.66	0.72	0.75
9	0.48	0.55	0.65	0.71	0.75
10	0.46	0.54	0.64	0.70	0.74
11	0.45	0.53	0.63	0.70	0.74
12	0.44	0.52	0.62	0.69	0.73

■ Table 6 Group rating factors for three-core cables in single way ducts in horizontal formation

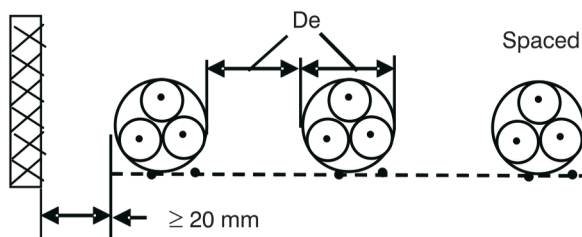
Number of cables	Spacing between duct group centres mm				
	Touching	150	300	450	600
2	0.85	0.87	0.90	0.92	0.94
3	0.75	0.79	0.83	0.86	0.88
4	0.69	0.74	0.79	0.83	0.86
5	0.65	0.70	0.76	0.80	0.84
6	0.62	0.67	0.73	0.79	0.83
7	0.59	0.65	0.72	0.78	0.82
8	0.57	0.63	0.70	0.77	0.81
9	0.55	0.62	0.69	0.76	0.80
10	0.54	0.61	0.68	0.75	-
11	0.52	0.60	0.68	0.75	-
12	0.51	0.59	0.67	0.74	-

Group Rating Factors

Table 7 Group rating factors for multi-core cables in air on perforated trays



Number of trays	Number of Cables					
	1	2	3	4	6	9
1	1	0.88	0.82	0.79	0.76	0.73
2	1	0.87	0.80	0.77	0.73	0.68
3	1	0.86	0.79	0.76	0.71	0.66

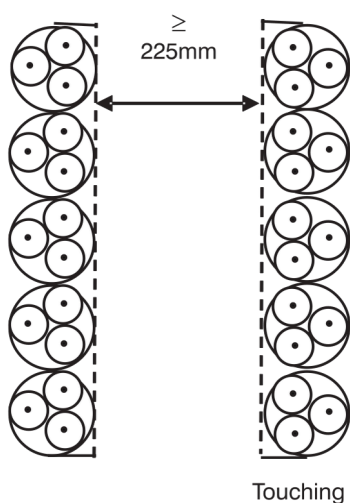


Number of trays	Number of Cables					
	1	2	3	4	6	9
1	1	1	0.98	0.95	0.91	-
2	1	0.99	0.96	0.92	0.87	-
3	1	0.98	0.95	0.91	0.85	-

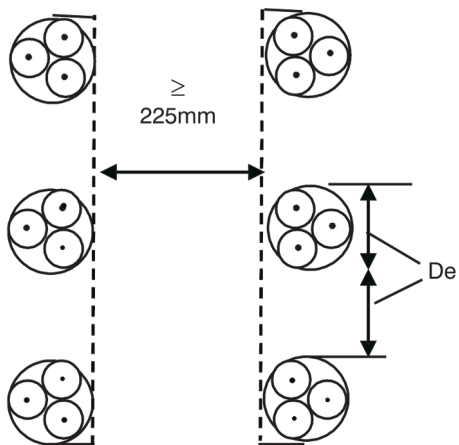
NOTE: 1 Factors apply to single layer groups of cables as shown above. Factors for cables installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

Table 8 Group rating factors for multi-core cables in air on vertical perforated trays



Number of trays	Number of Cables					
	1	2	3	4	6	9
1	1	0.88	0.82	0.78	0.73	0.72
2	1	0.88	0.81	0.76	0.71	0.70

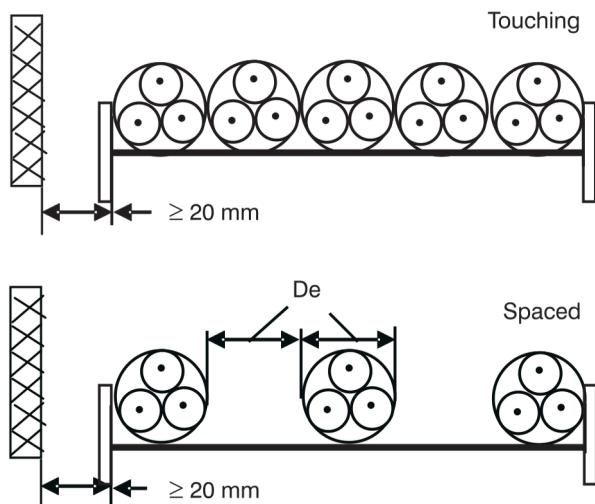


Spaced

Number of trays	Number of Cables					
	1	2	3	4	6	9
1	1	0.91	0.89	0.88	0.87	-
2	1	0.91	0.88	0.87	0.85	-

NOTE: 1 Factors are given for horizontal spacing between trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced.

Table 9 Group rating factors for multi-core cables in air on ladder supports, cleats, etc

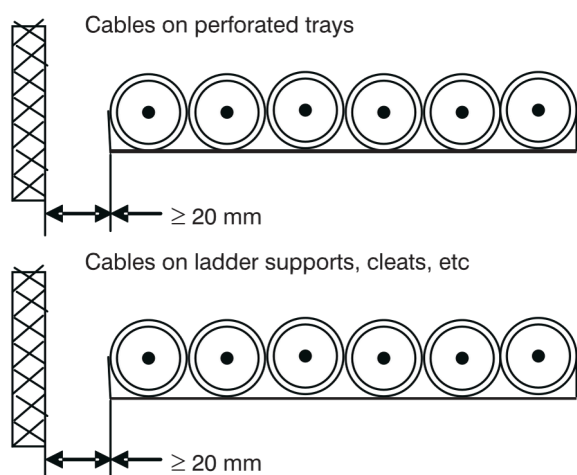


Number of trays	Number of Cables					
	1	2	3	4	6	9
1	1	0.87	0.82	0.80	0.79	0.78
2	1	0.86	0.80	0.78	0.76	0.73
3	1	0.85	0.79	0.76	0.73	0.70
1	1	1	1	1	1	-
2	1	0.99	0.98	0.97	0.96	-
3	1	0.98	0.97	0.96	0.93	-

NOTE: 1 Factors apply to single layer groups of cables as shown above. Factors for cables installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

Table 10 Group rating factors to be applied for circuits of three single core cables in air flat touching



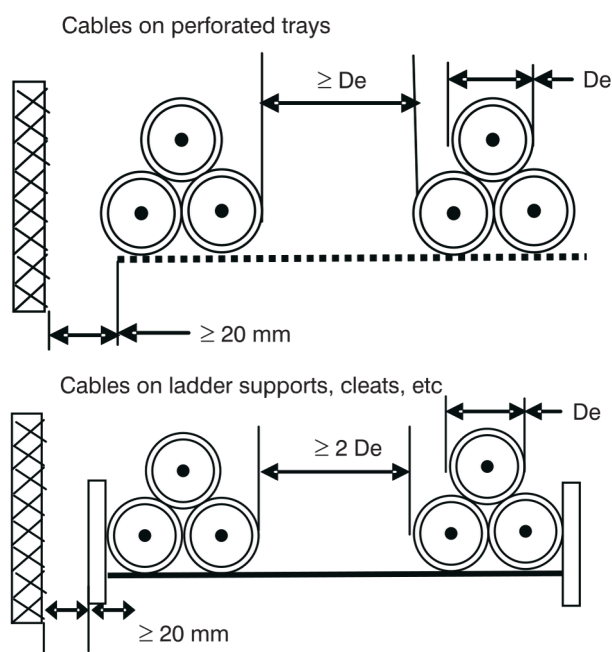
Number of trays	Number of three-phase circuits		
	1	2	3
1	0.98	0.91	0.87
2	0.96	0.87	0.81
3	0.95	0.85	0.78
1	1	0.97	0.96
2	0.98	0.93	0.89
3	0.97	0.90	0.86

NOTE: 1 Factors are given for single layers of cables as shown above. Factors for cables installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

NOTE: 3 For circuits having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

Table 11 Group rating to be applied for circuits of three single core cables in air on perforated trays and ladder air on perforated trays and ladder supports in trefoil formation



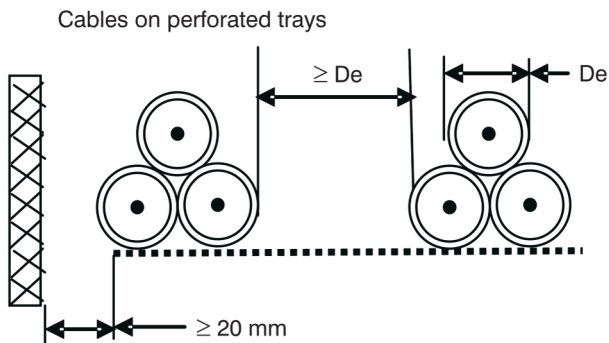
Number of trays	Number of three-phase circuits		
	1	2	3
1	1	0.98	0.96
2	0.97	0.93	0.89
3	0.96	0.92	0.86
1	1	1	1
2	0.97	0.95	0.93
3	0.96	0.94	0.90

NOTE: 1 Factors are given for single layers of trefoil groups as shown above. Factors for trefoil groups installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

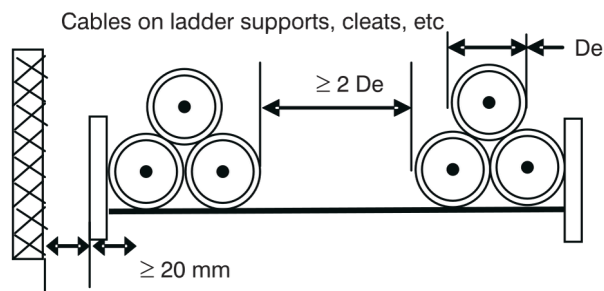
NOTE: 2 Factors are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

NOTE: 3 For circuits having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

Table I1 Group rating to be applied for circuits of three single core cables in air on perforated trays and ladder air on perforated trays and ladder supports in trefoil formation



Number of trays	Number of three-phase circuits		
	1	2	3
1	1	0.98	0.96
2	0.97	0.93	0.89
3	0.96	0.92	0.86
1	1	1	1
2	0.97	0.95	0.93
3	0.96	0.94	0.90

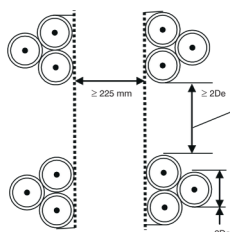


NOTE: 1 Factors are given for single layers of trefoil groups as shown above. Factors for trefoil groups installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

NOTE: 3 For circuits having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

Table I2 Group rating factors to be applied for circuits of three single core cables in air on vertical perforated trays in trefoil formation



Number of trays	Number of three-phase circuits		
	1	2	3
1	1	0.91	0.89
2	1	0.90	0.86

NOTE: 1 Factors are given for single layers of trefoil groups as shown above. Factors for trefoil groups installed in more than one layer touching each other will be significantly lower and must be determined by an appropriate method.

NOTE: 2 Factors are given for horizontal spacing between vertical trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced.

NOTE: 3 For circuits having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

A. Cable Inspection

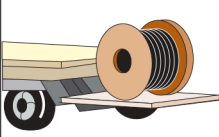
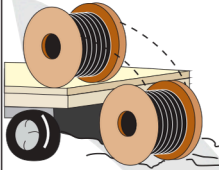
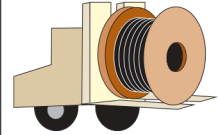
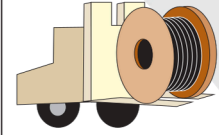
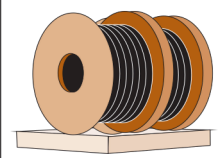
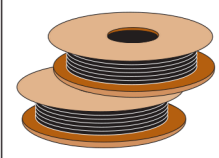
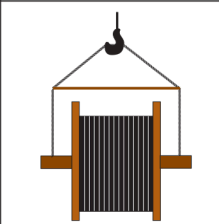
Inspect every cable reel for damage before accepting the shipment. Be particularly alert for cable damage if:

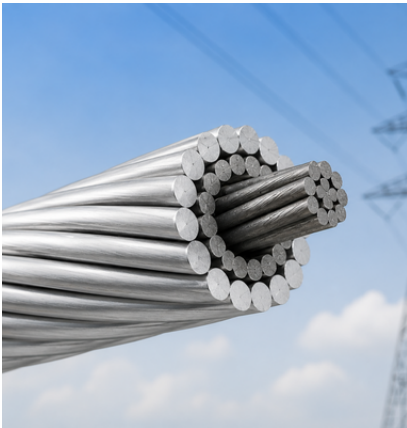
1. A reel lying flat on its side
2. Several reels are stacked
3. Other freight is stacked on a reel
4. Nails have been driven into reel flanges to secure shipping blocks
5. A reel flange is damaged
6. A cable covering is removed, stained or damaged
7. A cable end seal is removed or damaged. A reel has been dropped (hidden damage likely)

B. Cable Handling & Storage

Damage to cables can occur due to the incorrect handling to which the drum and cables may be subjected; causing breakdown of the drum flanges and in exceptional cases, movement of the drum barrel takes place. Once this breakdown of the drum occurs, the cable is immediately exposed to damage. Cables damaged during handling & storage can cause service failures when the subject cable is put to use.

Thus the following is a list of Dos and Don'ts that should be followed while handling and storing the cables before it is put to use.

Dos		Donts	
	When off loading reels from a truck, lower reels carefully using a hydraulic gate, hoist or fork lift truck.		Never drop reels. If reels must be rolled, roll in opposite direction of the cable wraps to keep cable from loosening on the reel.
	If a fork lift is used, approach the reel from the flange side. Position the forks such that the reel is lifted by both reel flanges. Also consideration should be given to, traffic patterns during off-loading & damage during the time in storage.		Do not allow the lift forks to contact the cable. Care must be taken by the fork lift operator not to make sudden turns or stops.
	Cable reels should be stored on hard surface resting on the flanges edge(flanges vertical). Align reel flange to flange and, if possible, arrange so that first in is first out.		Multiple reels stacked on top of each other (Pancake Storage) is not recommended for cable drums. The weight of the stack can total thousands of kgs. can create an enormous load on the bottom reel. Also, damage to three land/ or cable will likely occur when the reel is flipped for transit. A concentration of stress on the reel flange may cause it to break and subsequently damage the cable.
	When using a hoist, install a mandrel through the reel arbor holes and attach asling. Use a spreader bar approximately 6 inches longer than the overall reel width placed between the sling ends just above the reel flanges.		This may lead to the bending of the reel flanges and mashing the cable





SVK CONDUCTORS AND CABLES PVT LTD

CONNECTING POWER, DELIVERING TRUST



Mr. Imadabathini Shiva Shankara Rao, Director, is an industry veteran with over 25 years of experience in cables and conductors manufacturing. His expertise in Quality Assurance, Quality Control, and Manufacturing Excellence forms the foundation of SVK's success. His visionary leadership and entrepreneurial spirit have established SVK as a trusted manufacturer committed to innovation, uncompromising quality, and long-term customer relationships.



Mr. D. C. Reddy, Director, is a seasoned professional with over 26 years of experience in the aluminium industry. His expertise in Aluminium Products, Procurement, Strategic Sourcing, and Supply Chain Management has been instrumental in building a reliable and efficient sourcing network. With strong industry relationships and deep market knowledge, he plays a key role in ensuring quality, reliability, and cost-effective solutions. His leadership continues to strengthen SVK's commitment to excellence, integrity, and long-term customer satisfaction.

Address :Plot No 4-97/2 SY NO 262/A/3, kucharam Industrial Road,Manoharabad-Mandal Medak (District) Telangana-502336



8977721761/63/65

www.svkconductors.com



svkconductors@gmail.com