RELICAB CABLE MANUFACTURING LTD.

CABLE DIVISION

CONTROL CABLES

FLAT ELEVATOR CABLES

3 CORE FLAT CABLE

MULTI CORE FLEXIBLE CABLES

SINGLE CORE FLEXIBLE CABLES

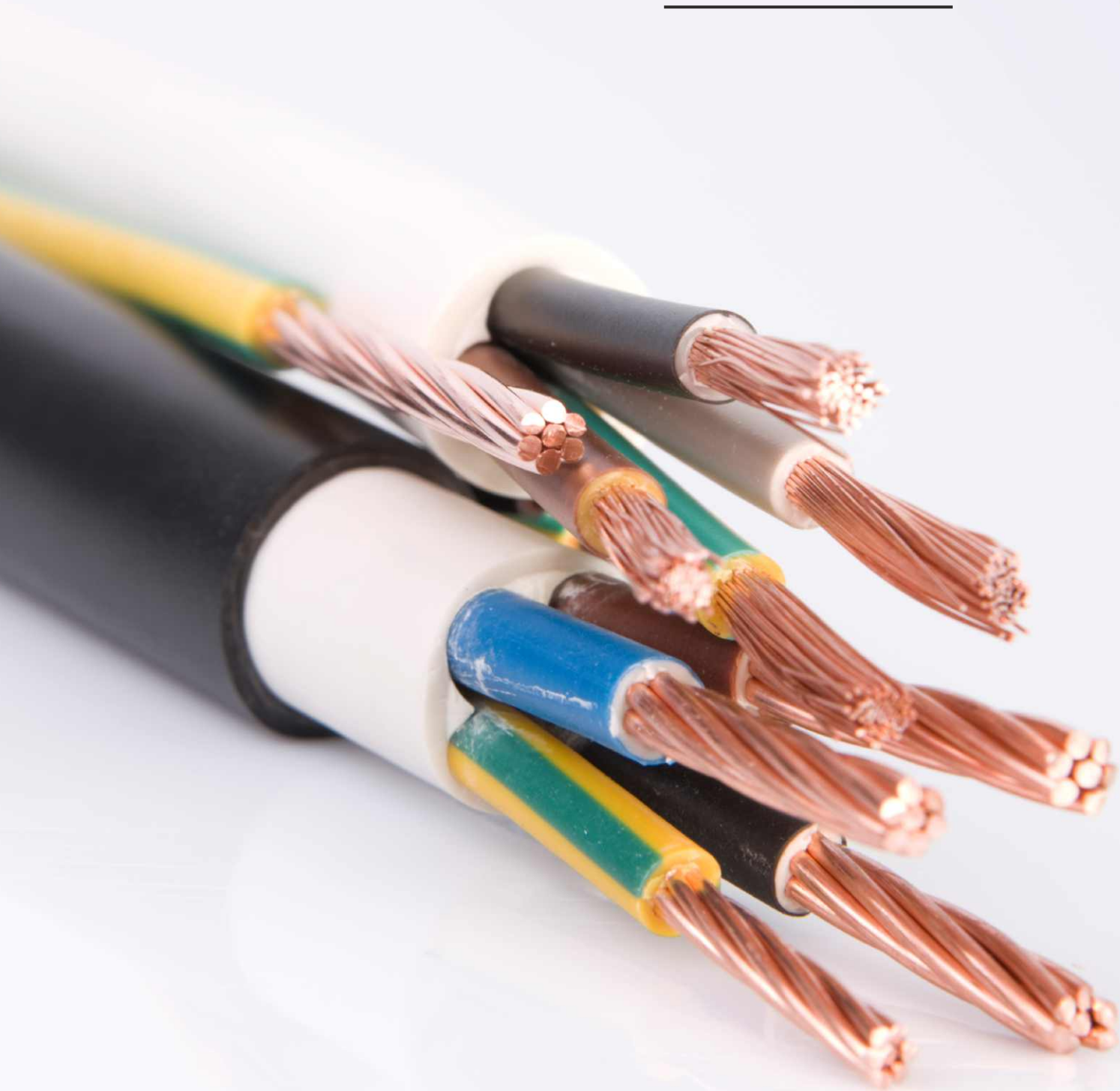
SOLAR CABLES

UNINYVIN CABLES

URS
An ISO 9001:2008 Company

UKAS
QUALITY
MANAGEMENT

CONTROL CABLES



1.1 KV, annealed high conductivity solid copper conductor, 1.5 sq. mm PVC insulated, Inner Sheathed, Unarmoured / Armoured, PVC Outer Sheathed Cable Confirming to IS : 1554 (Part-1)

NUMBER OF CORES	INSULATION THICKNESS (NOMINAL)	THICKNESS OF INNER SHEATH (MINIMUM)	UNARMOURED		ARMOURED				MAXIMUM DC RESISTANCE AT 20 DEG	CURRENT RATING	
			THICKNESS OF OUTER SHEATH (NOMINAL)	OVERALL DIA OF CABLE APPROX	DIA OF ROUND WIRE (NOMINAL)	DIMENSION OF FLAT STRIP (NOMINAL)	THICKNESS OF OUTER SHEATH (NOMINAL)	OVERALL DIA OF CABLE APPROX		DIRECT IN GROUND	IN AIR IN AMPS
In Nos.	In Mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In Ohm / Km	In Amps	In Amps
2	0.8	0.3	1.8	11.5	1.4		1.24	13	12.1	23	20
3	0.8	0.3	1.8	12	1.4		1.24	13.5	12.1	21	17
4	0.8	0.3	1.8	12.5	1.4		1.24	14	12.1	21	17
5	0.8	0.3	1.8	13.5	1.4		1.24	15	12.1	16	14
6	0.8	0.3	1.8	14.5	1.4		1.24	16	12.1	15	13
7	0.8	0.3	1.8	14.5	1.4		1.24	16	12.1	14	12
8	0.8	0.3	1.8	16	1.4		1.24	17	12.1	14	12
9	0.8	0.3	1.8	17	1.4		1.24	18.5	12.1	13	12
10	0.8	0.3	1.8	17.5	1.4		1.24	19	12.1	13	11
12	0.8	0.3	1.8	18		4 x 0.8	1.4	18	12.1	12	10
14	0.8	0.3	1.8	18.5		4 x 0.8	1.4	19	12.1	11	10
16	0.8	0.3	1.8	19.5		4 x 0.8	1.4	20	12.1	11	9
19	0.8	0.3	2	21		4 x 0.8	1.4	21	12.1	10	9
24	0.8	0.3	2	24		4 x 0.8	1.4	24	12.1	9	8
27	0.8	0.3	2	24.5		4 x 0.8	1.4	24.5	12.1	9	8
30	0.8	0.3	2	25		4 x 0.8	1.4	25	12.1	9	7
37	0.8	0.3	2	27		4 x 0.8	1.4	27	12.1	8	7
44	0.8	0.3	2	30		4 x 0.8	1.56	31	12.1	7	6
52	0.8	0.3	2.2	31.5		4 x 0.8	1.56	32	12.1	7	6
61	0.8	0.3	2.2	33		4 x 0.8	1.56	34	12.1	6	6

1.1 KV, annealed high conductivity solid copper conductor, 2.5 sq. mm PVC insulated, Inner Sheathed, Unarmoured / Armoured, PVC Outer Sheathed Cable Confirming to IS : 1554 (Part-1)

NUMBER OF CORES	INSULATION THICKNESS (NOMINAL)	THICKNESS OF INNER SHEATH (MINIMUM)	UNARMOURED		ARMOURED				MAXIMUM DC RESISTANCE AT 20 DEG	CURRENT RATING	
			THICKNESS OF OUTER SHEATH (NOMINAL)	OVERALL DIA OF CABLE APPROX	DIA OF ROUND WIRE (NOMINAL)	DIMENSION OF FLAT STRIP (NOMINAL)	THICKNESS OF OUTER SHEATH (NOMINAL)	OVERALL DIA OF CABLE APPROX		DIRECT IN GROUND	IN AIR IN AMPS
In Nos.	In Mm	In mm	In mm	In mm	In mm	In mm	In mm	In mm	In Ohm / Km	In Amps	In Amps
2	0.9	0.3	1.8	11.5	1.4		1.24	15	7.41	32	27
3	0.9	0.3	1.8	12	1.4		1.24	15	7.41	27	24
4	0.9	0.3	1.8	12.5	1.4		1.24	15.5	7.41	27	24
5	0.9	0.3	1.8	13.5	1.4		1.24	16.5	7.41	23	19
6	0.9	0.3	1.8	14.5	1.4		1.24	17.5	7.41	21	18
7	0.9	0.3	1.8	14.5	1.4		1.24	17.5	7.41	20	17
8	0.9	0.3	1.8	16	1.4		1.4	19.5	7.41	19	16
9	0.9	0.3	1.8	17		4 x 0.8	1.4	19.5	7.41	18	15
10	0.9	0.3	1.8	17.5		4 x 0.8	1.4	20	7.41	18	15
12	0.9	0.3	2	18		4 x 0.8	1.4	21	7.41	17	14
14	0.9	0.3	2	18.5		4 x 0.8	1.4	21.5	7.41	16	14
16	0.9	0.3	2	19.5		4 x 0.8	1.4	23	7.41	15	13
19	0.9	0.3	2	21		4 x 0.8	1.4	24	7.41	14	12
24	0.9	0.3	2	24		4 x 0.8	1.4	27.5	7.41	13	11
27	0.9	0.3	2	24.5		4 x 0.8	1.4	28	7.41	12	10
30	0.9	0.3	2	25		4 x 0.8	1.56	29	7.41	12	10
37	0.9	0.3	2.2	27		4 x 0.8	1.56	32	7.41	11	9
44	0.9	0.3	2.2	30		4 x 0.8	1.56	36	7.41	10	9
52	0.9	0.3	2.2	31.5		4 x 0.8	1.56	37	7.41	10	8
61	0.9	0.3	2.2	33		4 x 0.8	1.56	40	7.41	9	8

1.1 KV, annealed high conductivity solid copper conductor, PVC insulated, Inner Sheathed, Unarmoured / Armoured, PVC Outer Sheathed Cable Confirming to IS : 1554 (Part-1)

CROSS SECTION AREA (NOMINAL)	INSULATION THICKNESS (NOMINAL)	THICKNESS OF INNER SHEATH (MINIMUM)	THICKNESS OF OUTER SHEATH (NOMINAL) FOR UNARMOURED	OVERALL DIA OF CABLE (APPROX) FOR UNARMOURED	ARMOUR WIRE / STRIP DIMENSION	THICKNESS OF OUTER SHEATH (MINIMUM) FOR UNARMOURED	OVERALL DIA OF CABLE (APPROX) FOR ARMOURED	MAXIMUM DC RESISTANCE AT 20 DEG	CURRENT RATING	
									DIRECT IN GROUND	IN AIR IN AMPS
In sq. mm	In Mm	In mm	In mm	In mm	In mm	In mm	In mm	In Ohm / Km	In Amps	In Amps
2 CORE CABLES										
1.5	0.8	0.3	1.8	11.0	1.4	1.24	12.5	12.10	23	11.0
2.5	0.9	0.3	1.8	12.0	1.4	1.24	13.5	7.41	32	12.0
4.0	1.0	0.3	1.8	13.5	1.4	1.24	15.0	4.61	41	13.5
6.0	1.0	0.3	1.8	14.5	1.4	1.24	16.0	3.08	50	14.5
10.0	1.0	0.3	1.8	16.0	1.4	1.24	18.0	1.83	70	16.0
3 CORE CABLES										
1.5	0.8	0.3	1.8	11.5	1.4	1.24	12.50	12.10	21	11.5
2.5	0.9	0.3	1.8	12.5	1.4	1.24	14.00	7.41	27	12.5
4.0	1.0	0.3	1.8	13.5	1.4	1.24	15.50	4.61	36	13.5
6.0	1.0	0.3	1.8	15.0	1.4	1.24	17.00	3.08	45	15.0
10.0	1.0	0.3	1.8	16.5	1.4	1.40	19.00	1.83	60	16.5
4 CORE CABLES										
1.5	0.8	0.3	1.8	12.5	1.4	1.24	15.00	12.10	21	12.5
2.5	0.9	0.3	1.8	14.0	1.4	1.24	16.00	7.41	27	14.0
4.0	1.0	0.3	1.8	15.5	1.4	1.24	18.00	4.61	36	15.5
6.0	1.0	0.3	1.8	17.0	1.4	1.24	19.50	3.08	45	17.0
10.0	1.0	0.3	1.8	19.0	4 x 0.8	1.40	20.00	1.83	60	19.0

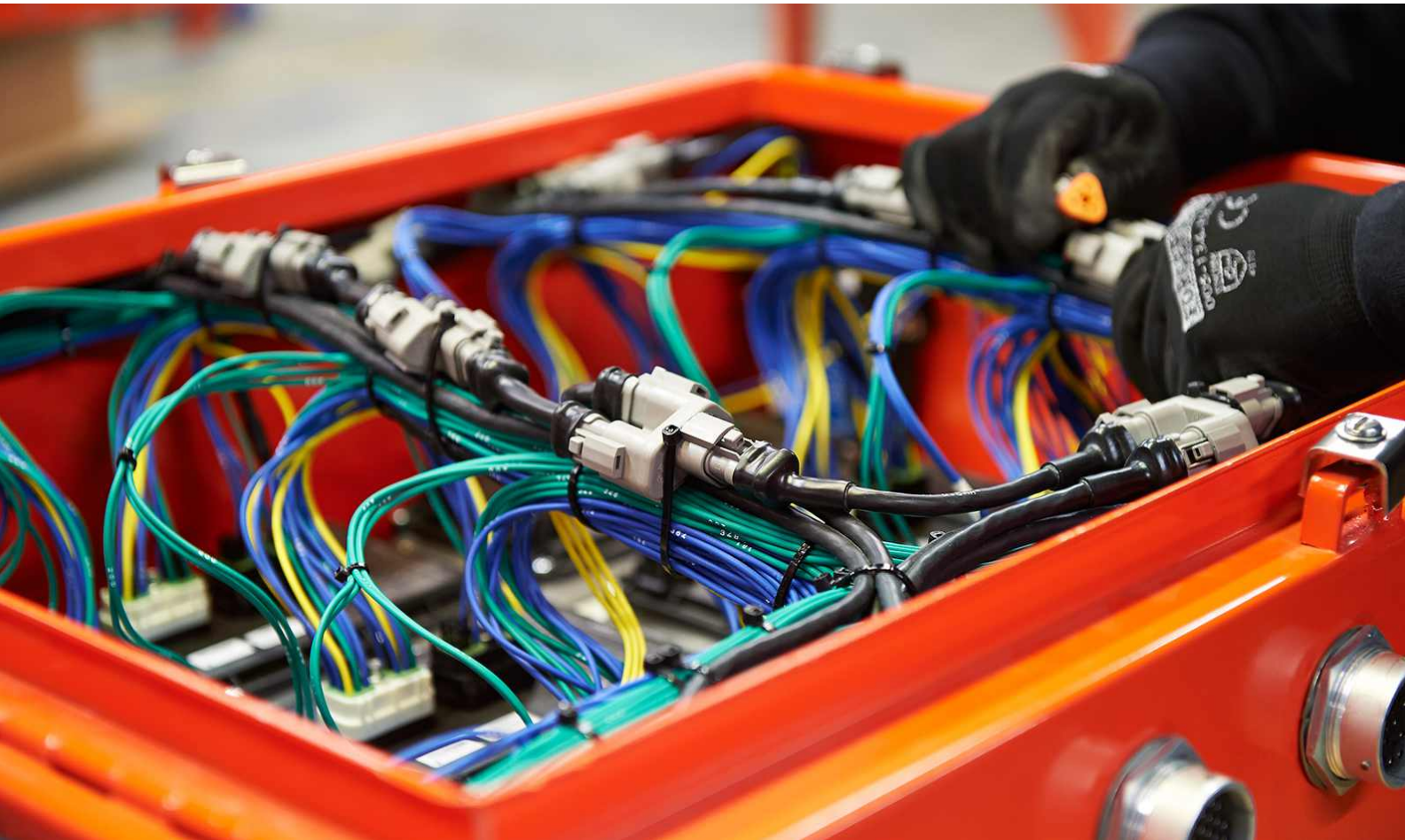
If required, these sizes can be offered with stranded conductors also.

1.1 KV, Single core annealed high conductivity copper conductor, PVC insulated, Aliminimum Wire / Strip armoured and PVC outer Sheathed Cables Confirming to IS : 1554 (Part-1)

CROSS SECTION AREA (NOMINAL)	INSULATION THICKNESS (NOMINAL)	ARMOUR ALUMINIMUM WIRE DIA	ARMOUR ALUMINIMUM STRIP DIMENSION	THICKNESS OF OUTER SHEATH (NOMINAL)	OVERALL DIA OF CABLE (APPROX)	MAXIMUM DC RESISTANCE AT 20 DEG.	CURRENT RATING			
							DIRECT IN GROUND		IN AIR	
							2 CABLES	3 CABLES	2 CABLES	3 CABLES
In sq. mm	In Mm	In mm	In mm	In mm	In mm	In OHM / KM	In mm	In Ohm / Km	In Amps	In Amps
4.0*	1.3	1.4		1.24	11.0	4.610	46	39	43	35
6.0*	1.3	1.4		1.24	12.0	3.080	57	49	54	44
10.0*	1.3	1.4		1.24	13.0	1.830	75	65	72	60
16	1.3	1.4		1.24	14.0	1.150	94	85	92	82
25	1.5	1.4		1.24	15.0	0.727	125	110	1125	110
35	1.5	1.4		1.24	16.0	0.524	150	130	155	130
50	1.7	1.4		1.24	18.0	0.387	180	155	190	165
70	1.7	1.4		1.40	20.0	0.268	220	190	235	205
95	1.9		4 x 0.8	1.40	21.0	0.193	265	220	275	245
120	1.9		4 x 0.8	1.40	22.0	0.153	300	250	310	280
150	2.1		4 x 0.8	1.40	24.0	0.124	340	280	345	320
185	22.3		4 x 0.8	1.40	26.0	0.099	380	305	390	370
240	2.5		4 x 0.8	1.40	29.0	0.075	420	345	445	425
300	2.7		4 x 0.8	1.56	32.0	0.060	465	375	500	475
400	3.0		4 x 0.8	1.56	36.0	0.047	500	400	570	550
500	3.4		4 x 0.8	1.56	40.0	0.037	540	425	610	590
630	3.9		4 x 0.8	1.72	44.0	0.028	590	470	680	660

1.1 KV, Single core annealed high conductivity copper conductor, PVC insulated, unarmoured PVC outer Sheathed Cables Confirming to IS : 1554 (Part-1)

CROSS SECTION AREA (NOMINAL)	INSULATION THICKNESS (NOMINAL)	THICKNESS OF OUTER SHEATH (NOMINAL)	OVERALL DIA OF CABLE (APPROX)	MAXIMUM DC RESISTANCE AT 20 DEG.	CURRENT RATING			
					DIRECT IN GROUND		IN AIR	
					2 CABLES	3 CABLES	2 CABLES	3 CABLES
In sq. mm	In Mm	In mm	In mm	In OHM / KM	In mm	In Ohm / Km	In Amps	In Amps
1.5*	0.8	1.8	7.0	12.100	25	22	24	20
2.5*	0.9	1.8	7.5	7.410	35	30	32	27
4.0*	1.0	1.8	8.0	4.610	46	39	43	35
6.0*	1.0	1.8	9.0	3.080	57	49	54	44
10.0*	1.0	1.8	10.0	1.830	75	65	72	60
16	1.0	1.8	11.0	1.150	94	85	92	82
25	1.2	1.8	12.5	0.727	125	110	125	110
35	1.2	1.8	13.5	0.524	150	130	155	130
50	1.5	1.8	15.0	0.387	180	155	190	165
70	1.4	1.8	17.0	0.268	220	190	235	205
95	1.6	1.8	19.0	0.193	265	220	275	245
120	1.6	2.0	21.0	0.153	300	250	310	280
150	1.8	2.0	22.5	0.124	340	280	345	320
185	2.0	2.0	25.0	0.099	380	305	390	370
240	2.2	2.0	28.0	0.075	420	345	445	425
300	2.4	2.0	30.0	0.060	465	375	500	475
400	2.6	2.2	34.0	0.047	500	400	570	550
500	3.0	2.2	38.0	0.037	540	425	610	590
630	3.4	2.4	43.0	0.028	590	470	680	660



PVC INSULATED & SHEATHED

FLAT ELEVATOR / TRAINING CABLES

Relicab Cable Mfg. Ltd. manufactures of PVC Wires / Cables and Compounds introduce ourselves as an ISO 9001:2008 Certified Company, We also manufacture various Wiring Harnesses and supply the same to many reputed companies since 1986.

We have developed 12 Core and 16 Core Flat Elevator Cable using special PVC Compound which is highly flexible and with bouncing effects. The cores are situated in adjacent groups and each group permits easy opening of jacket for installation.

Electrical Data
Nominal Voltage : Upto 1100V
Test Voltage : 3000V
Insulation resistance per 1000 m : Min. 350 M

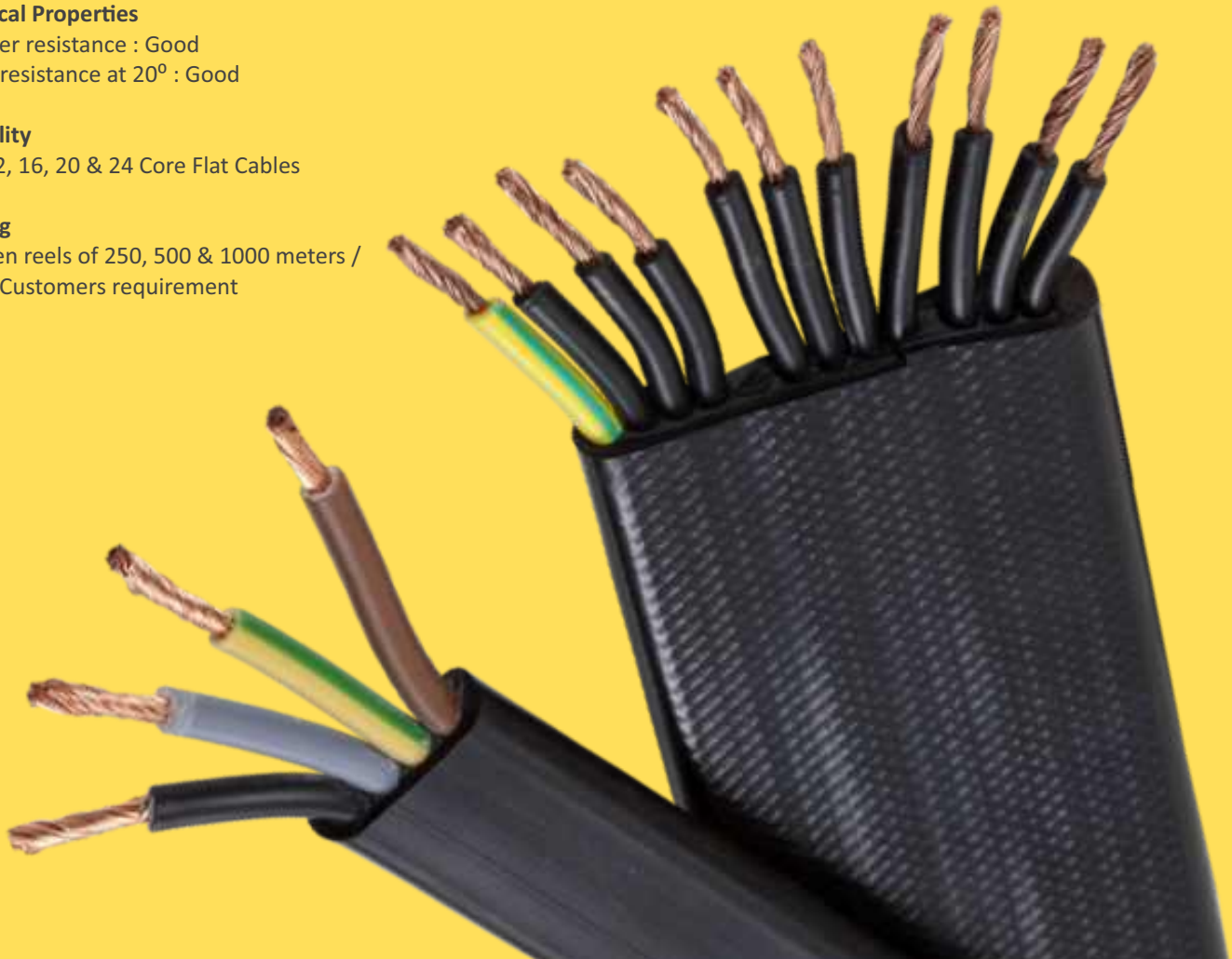
Bending Radius
10xOverall diameter

Mechanical and thermal properties
Operating temperature range : 0^{o}C to 70^{o}C

Chemical Properties
Weather resistance : Good
Water resistance at 20^{o} : Good

Speciality
2, 4, 12, 16, 20 & 24 Core Flat Cables

Packing
Wooden reels of 250, 500 & 1000 meters / as per Customers requirement



3 CORE FLAT CABLE

MOTOR RATING			CABLE SIZE IN SQ. MM.											
VOLTS	kW	HP	1.5	2.5	4	6	10	16	25	35	50	70	95	
220-240 VOLT 50Hz	0.37	0.50	120	200	320	480	810	1260	1900	2590	3580	4770	5920	MAXIMUM LENGTH IN MTRS
	0.55	0.75	80	130	250	320	550	850	1290	1760	2430	3230	4000	
	0.75	1.00	60	100	170	250	430	670	1010	1380	1910	2550	3160	
	1.10	1.50	40	70	120	180	300	470	710	980	1360	1850	2320	
	1.50	2.00	30	60	90	130	230	360	550	760	1060	1440	1820	
	2.20	3.00		40	60	100	170	280	430	600	820	1080	1310	

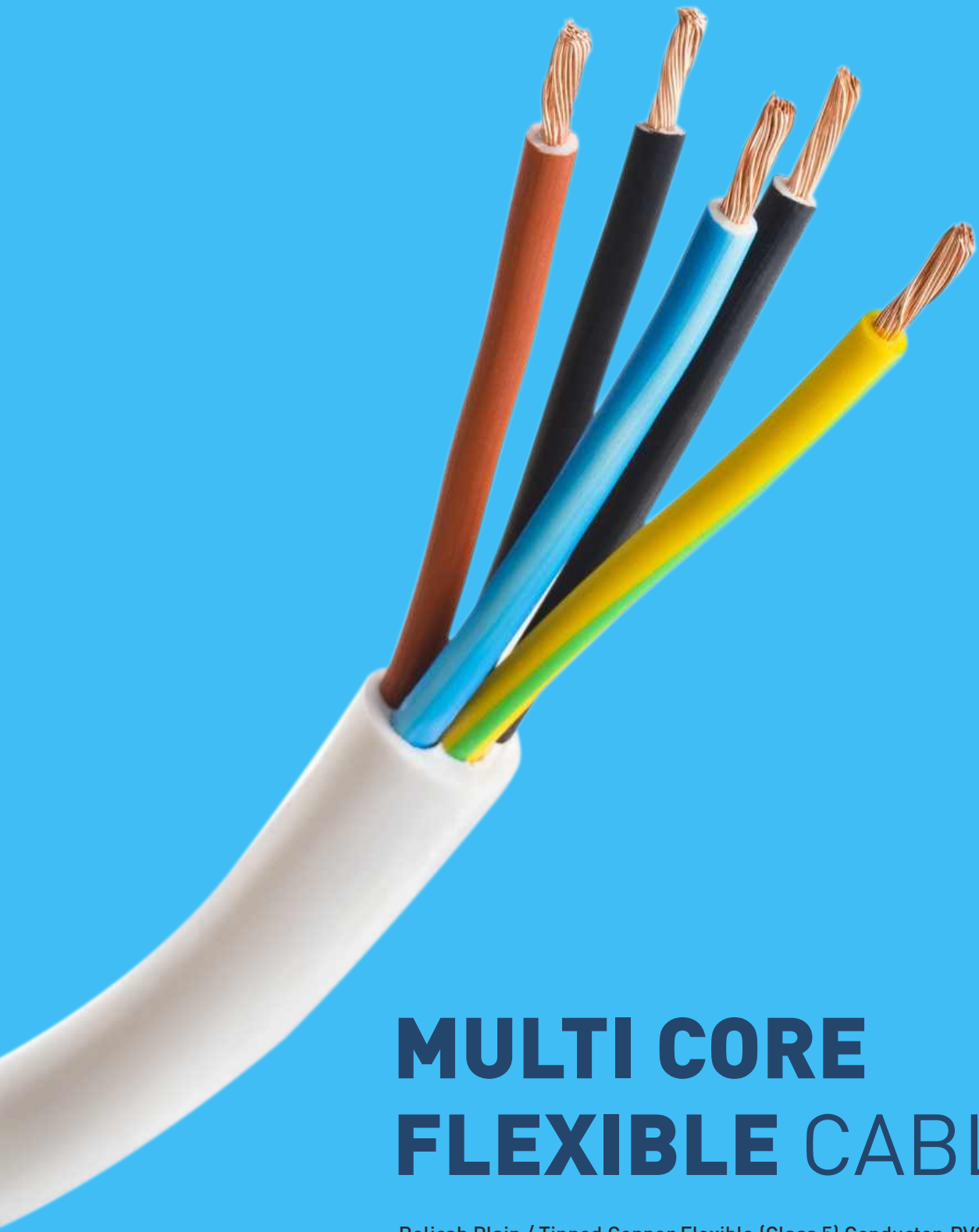
FOR THREE PHASE MOTOR MAXIMUM LENGTH OF COPPER CABLE

MOTOR RATING			CABLE SIZE IN SQ. MM.											
VOLTS	kW	HP	1.5	2.5	4	6	10	16	25	35	50	70	95	
220-240 VOLT 50Hz	0.75	1.00	380	630	1020	1525	2595	4032	6111	8366				MAXIMUM LENGTH IN MTRS
	1.10	1.50	300	500	810	1210	2060	3200	4850	6640	9220			
	1.50	2.00	220	370	590	880	1500	2340	3560	4890	6830	9220		
	2.20	3.00	150	250	400	600	1030	1600	2440	3350	4980	6830	7990	
	3.00	4.00	110	190	310	460	790	1230	1880	2590	3630	4930	6230	
	3.70	5.00	90	150	240	370	630	980	1490	2050	2870	3900	4920	
	4.00	5.50	80	140	230	340	590	920	1390	1910	2670	3600	4520	
	4.50	6.00	70	130	220	320	550	860	1310	1790	2510	3390	4260	
	5.50	7.50	60	110	170	260	440	690	1060	1450	2030	2750	3460	
	7.50	10.00	50	80	130	200	340	350	810	1110	1560	2120	2680	
	9.30	12.50		60	110	160	280	440	670	920	1310	1780	2250	
	11.00	15.00		50	90	130	230	360	550	750	1060	1440	1820	
	13.00	17.50			80	110	200	310	480	650	920	1250	1580	
	15.00	20.00			70	100	170	270	410	570	800	1080	1370	
	18.5	25				80	140	210	330	450	630	860	1090	
	22.0	30				70	120	180	280	380	540	740	930	
	26.0	35					100	150	230	310	440	610	770	
	30	40					90	130	210	280	400	540	680	
	37	50						110	170	230	320	440	550	
	45	60							140	190	260	360	460	
	55	75								160	220	290	380	
	75	100									160	220	260	
	93	125										170	220	

1.1 kV SINGLE CORE ANNEALED HIGH CONDUCTIVITY COPPER CONDUCTOR, PVC INSULATED AND PVC SHEATHED FLAT SUBMERSIBLE PUMP CABLES CONFIRMING TO IS:694 : 2010

AREA IN SQ.FT.	NO / DIA OF STRANDS	INSULATION THICKNESS (NOMINAL IN MM)	SHEATH THICKNESS (NOMINAL IN MM)	OVERALL DIMENSIONS (W X H) APPROX IN MM	MAX DC RESISTANCE AT 20 DEG. IN OHMS/KM	CURRENT CARRYING CAPASITY AT 40 DEG. IN AMPS
1.5	22/0.3*	0.6	0.9	10.3 x 4.9	12.10	14
2.5	36/03*	0.7	1.0	12.6 x 5.8	7.41	18
4.0	56/0.3	0.8	1.0	14.8 x 6.6	4.95	26
6.0	84/0.3	0.8	1.1	16.5 x 7.4	3.30	31
10.0	140/0.3	1.0	1.4	21.0 x 9.3	1.91	42
16.0	226/0.3	1.0	1.4	24.5 x 10.7	1.21	57
25.0	354/0.3	1.2	2.0	30.6 x 13.5	0.780	72
35.0	495/0.3	1.2	2.0	34.4 x 14.7	0.554	90
50.0	703/0.3	1.4	2.2	41.2 x 17.2	0.386	115
70.0	360/0.3	1.4	2.2	46.6 x 19.0	0.272	143
95.0	475/0.3	1.6	2.2	53.0 x 21.4	0.206	165

*** If required, these sizes can be offered with class- 5 conductors also.**



MULTI CORE FLEXIBLE CABLES

Relicab Plain / Tinned Copper Flexible (Class 5) Conductor, PVC Insulated, PVC* (Normal / Normal ROHS / HR / FR / ZHFR / HRFR / FRLS) Sheathed 1100 Volts multi Core Cables for Exhibition & trade show, Appliance & Power tools supply cords, Lifts & Moving hoists & cranes and other Industrial Applications as per IS 694:2010 with ISI Mark

AREA (SQ. mm)		0.50	0.75	1.00	1.50	2.50	4.00
General Construction No./Dia		16/0.2	24/0.2	32/0.25	*30/0.25	**50/0.25	56/0.3
Conductor Dia (mm)		0.94	1.20	1.34	1.64	2.08	2.61
Avg. Insu. Thickness (mm)		0.60	0.60	0.60	0.60	0.70	0.80
Core Dia (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. Ovarall 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. Ovarall 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. Ovarall 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. Ovarall 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. Ovarall 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. Ovarall 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. Ovarall 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	1.40	1.40	1.50
	App. Ovarall Dia mm	13.20	14.90	14.60	16.00	19.30	23.20
24	Avg. Sheath Thickness mm	1.20	1.30	1.30	1.40	1.40	1.50
	App. Ovarall 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. Ovarall Dia mm	16.80	18.70	19.30	21.40	25.70	30.60
	Max. Conductor Resistance	30.00	26.00	19.50	13.30	7.98	7.98
	Recommended Current Rating in Amp	4	7	11	14	19	26

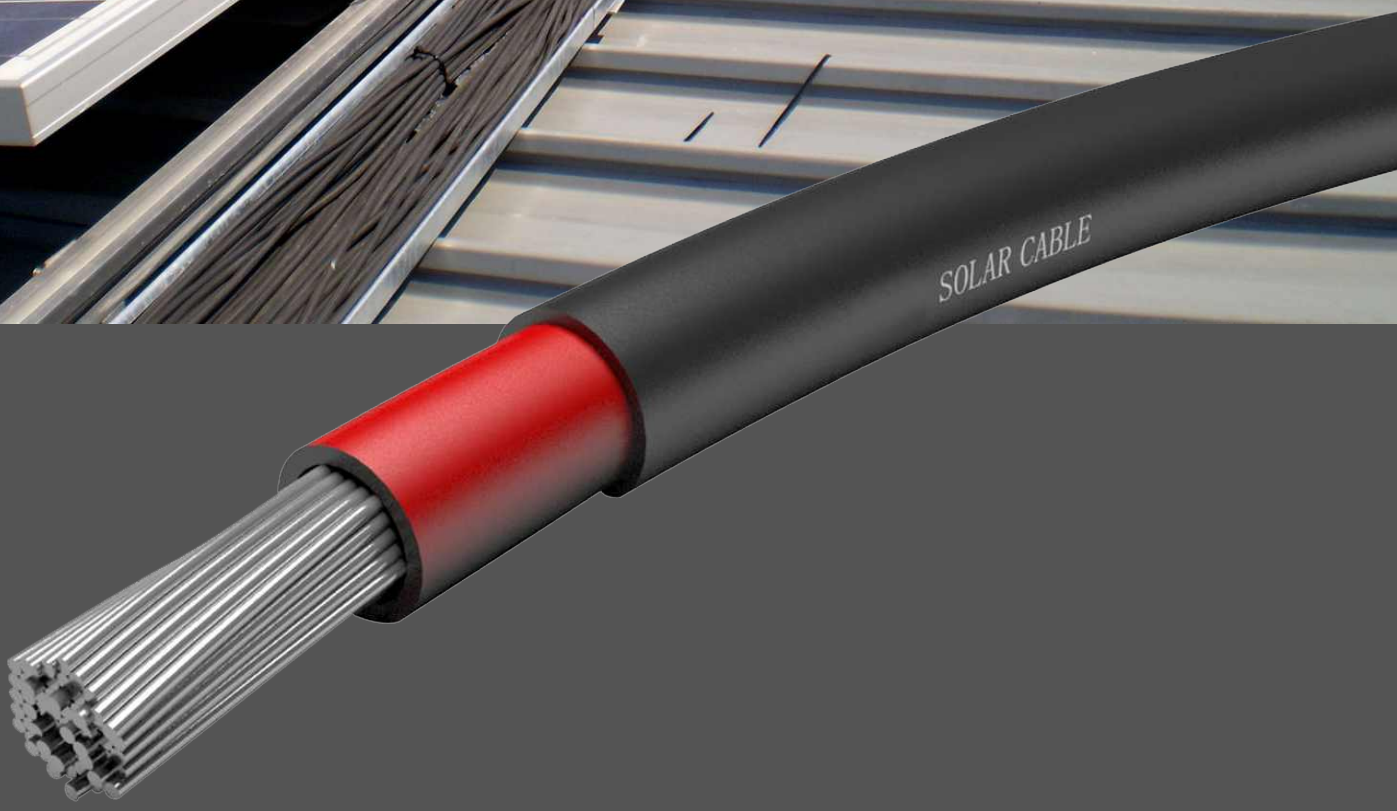
Area Sq. mm	Construction No./Dia	Cond. Dia mm	Max. DC Resistance Ohm / km	Insulation Thickness Nominal mm	Core Dia. mm	Sheath Thickness in mm Nominal			Overall Diameter in mm Approx			Current Rating Amp.
						2 Core	3 Core	4 Core	2 Core	3 Core	4 Core	
0.50	16/0.2	0.94	39.00	0.60	2.20	0.90	0.90	0.90	6.20	6.60	7.20	4
0.75	24/0.2	1.20	26.00	0.60	2.50	0.90	0.90	0.90	6.80	7.20	7.90	7
1.00	32/0.2	1.34	19.50	0.60	2.60	0.90	0.90	0.90	7.00	7.50	8.10	11
1.50	*30/0.25	1.64	13.30	0.60	2.90	0.90	0.90	1.00	7.60	8.10	9.00	14
2.50	**50/0.25	2.08	7.98	0.70	3.50	1.00	1.00	1.00	9.00	9.60	10.50	19
4.00	56/0.3	2.61	4.95	0.80	4.30	1.00	1.00	1.00	10.60	11.30	12.40	26
6	84/0.3	3.50	3.30	0.80	5.10	1.15	1.15	1.40	12.60	13.40	15.20	33
10	140/0.3	4.60	1.91	1.00	6.60	1.40	1.40	1.40	16.00	17.00	18.80	45
16	126/0.4	6.00	1.21	1.00	9.00	1.40	1.40	1.40	18.80	20.10	22.20	60
25	196/0.4	7.60	0.780	1.20	10.00	2.00	2.00	2.00	24.00	25.60	28.20	75
35	276/0.4	8.70	0.554	1.20	11.10	2.00	2.00	2.00	26.30	28.00	31.00	95
50	396/0.4	10.60	0.386	1.40	13.40	2.00	2.00	2.00	30.90	33.00	36.50	125
70	360/0.5	12.30	0.272	1.40	15.10	2.00	2.00	2.40	34.20	27.00	41.00	170
95	485/0.5	14.70	0.206	1.60	17.90	2.20	2.40	2.40	40.20	43.50	47.80	210

SINGLE CORE FLEXIBLE CABLES

Relicab Plain / Tinned Stranded Copper (Class 2) Conductor, PVC* (Normal / Normal ROHS / HR / FR / ZHFR / HRFR / FRLS) insulated 1100 Volts Single Core Cables for House Service Wires, Panel Board Wiring and other Industrial Applications as per IS 694:2010 with ISI Mark

Area in Sq. mm	Conductor Construction in General Nos./Strand Dia in mm	Conductor Diameter in mm (Approx)	Max. DC Resistance in Ohm / km for Bare Copper Ohm / km at 20° C	Max. DC Resistance in Ohm / km for Tinned Copper Ohm / km at 20° C	Insulated Thickness Nominal in mm	Overall Diameter of Cable in mm (Approx)	Current Rating in Amps
0.50	16/0.20	0.94	39.00	40.10	0.60	2.20	4
0.75	24/0.20	1.20	26.00	26.70	0.60	2.40	7
1.00	32/0.20	1.34	19.50	20.00	0.60	2.60	12
1.50	30/0.25	1.62	13.30	13.70	0.60	2.90	15
2.50	50/0.25	2.08	7.98	8.21	0.70	3.50	20
4.00	56/0.30	2.61	4.95	5.09	0.80	4.30	27
6	84/0.30	3.50	3.30	3.39	0.80	5.30	35
10	140/0.30	4.60	1.91	1.95	1.00	6.70	46
16	126/0.40	6.00	1.21	1.24	1.00	8.20	62
25	196/0.40	7.60	0.78	0.795	1.20	10.00	80
35	276/0.40	8.70	0.554	0.565	1.20	11.30	102
50	396/0.40	10.60	0.386	0.393	1.40	13.50	138
70	360/0.50	12.30	0.272	0.277	1.60	15.00	214
95	485/0.50	14.70	0.206	0.210	1.80	17.50	260
120	608/0.50	16.70	0.161	0.164	2.00	19.00	305
150	750/0.50	18.30	0.129	0.132	2.00	21.00	355
185	925/0.50	20.00	0.106	0.108	2.00	23.50	415
240	1221/0.50	23.00	0.0801	0.0817	2.20	26.50	500
300	1527/0.50	27.20	0.0641	0.0654	2.40	29.50	570
400	2036/0.50	30.50	0.0486	0.0495	2.60	33.50	651
500	608/0.50	32.00	0.0384	0.0391	2.80	37.50	727
630	608/0.50	39.00	0.0287	0.0292	3.00	42.00	806

Area in Sq. mm	Conductor Construction in General Nos./Strand Dia in mm	Insulated Thickness in mm	Max. DC Resistance in Ohm / km for Bare Copper Ohm / km at 20° C	Max. DC Resistance in Ohm / km for Tinned Copper Ohm / km at 20° C	Overall Diameter of cable in mm (Approx)	Current Rating in Amps
1.50	7/0.53	0.7	12.1	12.2	3.00	13
2.50	7/0.67	0.8	7.41	7.56	3.60	20
4.00	7/0.85	0.8	4.61	4.70	4.20	27
6.0	7/1.04	0.8	3.08	3.11	4.70	35
10.00	7/1.35	1.0	1.83	1.84	6.20	46
16.00	7/1.70	1.0	1.15	1.16	7.20	62
25.00	7/2.14	1.2	0.727	0.734	8.90	80
35.00	7/2.50	1.2	0.524	0.529	10.00	102
50.00	19/1.78	1.4	0.387	0.391	11.90	138
70.00	19/2.14	1.4	0.268	0.270	13.60	214
95.00	19/2.50	1.6	0.193	0.195	15.80	260
120.00	37/2.03	1.6	0.153	0.154	17.50	305
150.00	37/2.24	1.8	0.124	0.126	19.40	355
185.00	37/2.50	2.0	0.0991	0.100	21.70	415
240.00	61/2.24	2.2	0.0754	0.0762	24.80	500
300.00	61/2.50	2.4	0.0601	0.0607	27.50	570



SOLAR CABLES

Solar Power is a renewable energy and it is a green technology of the today's world. Solar cables are rated at 1kV AC and 1.5 kV DC. The ambient temperature range is -40 Deg. C to +90 Deg. C. These cable are UV resistance as per DIN 53367, Oil & Chemical resistance as per EN 60811-2-1 and ozone resistance as per EN 50396 Part 8.1.3

Method B. Insulation & Sheathing compounds are usually ROHS complained. Anticipated period of use is 25 years.

Solar Cables are manufactured as per (1) TUV 2Pfg 1169/08.2007 standard (2) IS 694 & IS 1554 (Part-1) standard & (3) IS 7098 (Part-1) standard

1. Solar DC Cables as per TUV 2Pfg 1169/08.2007 standard

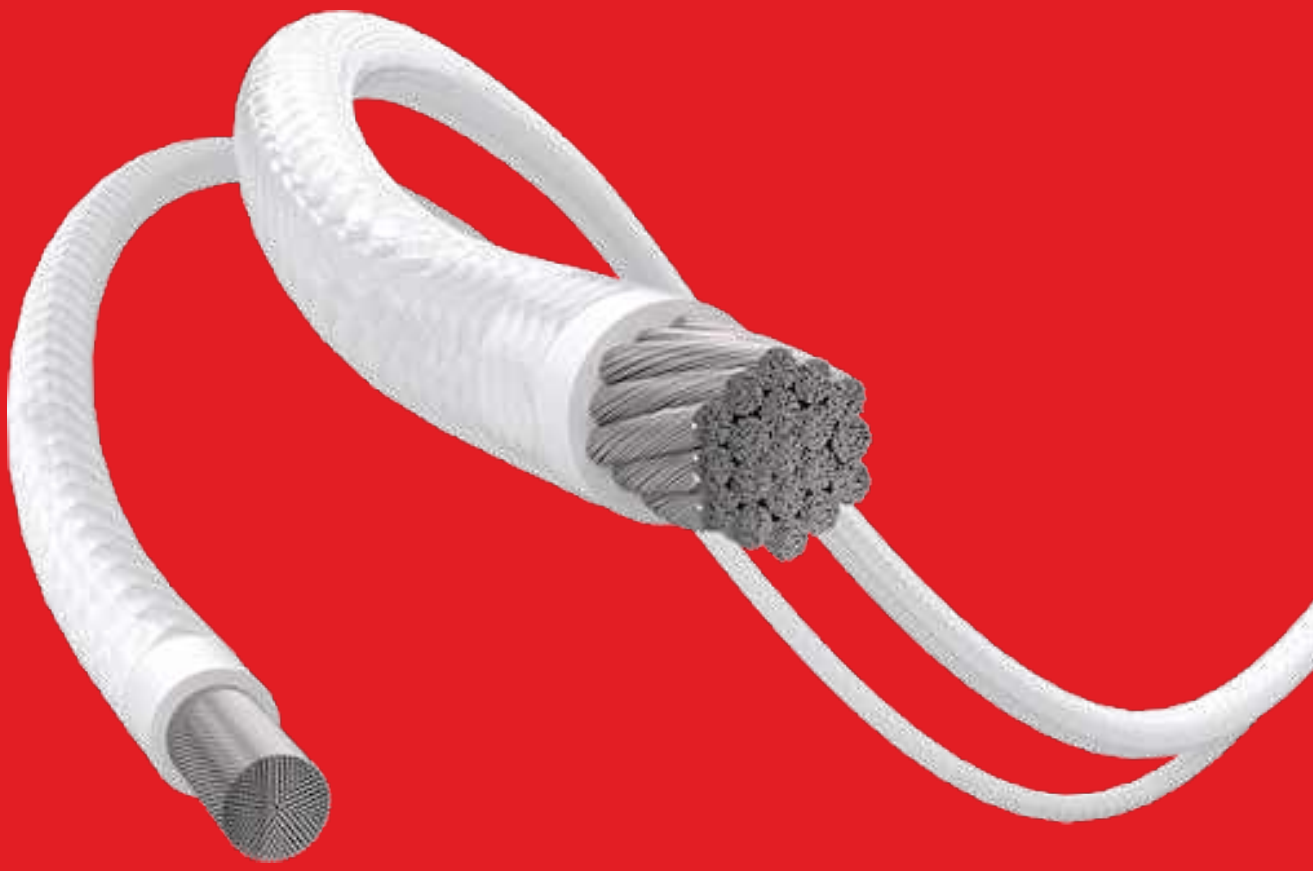
Area of Cross Section in Sq. mm	Conductor Construction No./Dia mm	Max. DC Resistance of Tinned Copper Ohm / km at 20° C	Insulation Thickness of XL-LSOH (Nominal) in mm	Sheath Thickness of XL-LSOH (Nominal) in mm	Overall Diameter of Finished Cable (Nominal) in mm	Current Carrying Capacity at 20° C		
						Single Cable in Air in Amps	Single Cable on Surface in Amps	2 adjacent Cable on Surface in Amps
1.5	30/0.25	13.700	0.50	0.50	4.1	30	29	24
2.5	50/0.25	8.210	0.50	0.50	4.5	41	39	33
4.0	56/0.30	5.090	0.50	0.50	5.1	55	52	44
6.0	84/0.30	3.390	0.50	0.50	6.1	70	67	57
10.0	140/0.30	1.950	0.50	0.50	6.6	98	93	79
16.0	126/0.40	1.240	0.50	0.50	7.7	132	125	107
25.0	196/0.40	0.795	0.90	1.00	10.5	176	167	142
35.0	276/0.40	0.565	0.90	1.10	12.0	218	207	176
50.0	396/0.40	0.393	1.00	1.20	14.0	174	260	219
70.0	360/0.50	0.277	1.10	1.30	15.0	406	386	325
95.0	485/0.50	0.210	1.10	1.50	18.5	491	467	393
120.0	608/0.50	0.164	1.20	1.60	20.0	576	547	461
150.0	750/0.50	0.132	1.40	1.70	22.5	670	637	536
185.0	925/0.50	0.108	1.60	1.90	25.0	784	745	627
240.0	1221/0.50	0.0817	1.70	2.10	28.0	944	897	755

2. Solar DC Cables as per IS 694 & IS 1554 (Part-1)standard

Area of Cross Section in Sq. mm	Conductor Construction No./Dia mm	Max. DC Resistance of Bare Copper 20° C in Ohm / km	Insulation Thickness of (HR 105 Deg. C) PVC (Nominal) in mm	Sheath Thickness of UV Stabilised PVC type ST2 (Nominal) in mm	Overall Diameter of Finished Cable (Nominal) in mm	Current Carrying Capacity at 40° C		
						Single Cable in Air in Amps	Single Cable on Surface in Amps	2 adjacent Cable on Surface in Amps
1.5	30/0.25	13.300	0.60	0.90	5.0	28	26	22
2.5	50/0.25	7.980	0.70	0.90	5.5	39	37	31
4.0	56/0.30	4.950	0.80	0.90	6.5	50	48	40
6.0	84/0.30	3.300	0.80	0.90	7.0	64	61	51
10.0	140/0.30	1.910	1.00	0.90	8.5	89	84	71
16.0	126/0.40	1.210	1.00	0.90	9.5	119	113	95
25.0	196/0.40	0.780	1.20	1.00	11.5	150	143	120
35.0	276/0.40	0.554	1.20	1.10	13.0	191	182	153
50.0	396/0.40	0.386	1.40	1.30	15.5	253	240	202
70.0	360/0.50	0.272	1.40	1.40	17.5	374	355	299
95.0	485/0.50	0.206	1.60	1.50	20.0	451	429	361
120.0	608/0.50	0.161	1.60	1.60	21.5	530	504	424
150.0	750/0.50	0.129	1.80	1.80	24.0	618	587	494
185.0	925/0.50	0.106	2.00	1.90	26.0	721	685	577
240.0	1221/0.50	0.0801	2.20	2.20	30.0	869	825	695

3. Solar DC Cables as per IS 7098 (Part-1)standard

Area of Cross Section in Sq. mm	Conductor Construction No./Dia mm	Max. DC Resistance of Bare Copper 20° C in Ohm / km	Insulation Thickness of XLPE (Nominal) in mm	Sheath Thickness of UV Stabilised PVC type ST2 (Nominal) in mm	Overall Diameter of Finished Cable (Nominal) in mm	Current Carrying Capacity at 40° C		
						Single Cable in Air in Amps	Single Cable on Surface in Amps	2 adjacent Cable on Surface in Amps
1.5	30/0.25	13.300	0.7	0.9	5.0	25	24	20
2.5	50/0.25	7.980	0.7	0.9	5.5	35	33	28
4.0	56/0.30	4.950	0.7	0.9	6.00	45	43	36
6.0	84/0.30	3.300	0.7	0.9	6.5	58	55	46
10.0	140/0.30	1.910	0.7	0.9	7.0	80	76	64
16.0	126/0.40	1.210	0.7	0.9	8.5	106	101	85
25.0	196/0.40	0.780	0.9	1.0	11.0	135	128	108
35.0	276/0.40	0.554	0.9	1.1	12.5	173	164	138
50.0	396/0.40	0.386	1.0	1.2	14.5	226	215	181
70.0	360/0.50	0.272	1.1	1.3	16.5	336	319	269
95.0	485/0.50	0.206	1.1	1.5	19.0	406	386	325
120.0	608/0.50	0.161	1.2	1.6	20.5	476	452	381
150.0	750/0.50	0.129	1.4	1.7	23.0	555	527	444
185.0	925/0.50	0.106	1.6	1.9	25.5	649	616	519
240.0	1221/0.50	0.0801	1.7	2.1	28.5	781	742	625



UNINYVIN CABLES

Nyvin type Electrical Cables are usually used in Air Craft Wiring. The Aircraft Industry is one of the potential users ofthese cables. The standard to manufacture and testing Nyvin Cable has been derived from BS G 117 i.e. " Nyvin type of electrical cables for Aircraft", issued by the British Standards Institution. Apart from Aircraft, in modern days, these cables are widely used in various applications of Uninterrupted Power Supply (UPS) like battery connections, Internal Wiring, Battery Bank interconnections etc. because of its efficiency, now a days, these cables are also used for Panel Board Witingand other industrial applications.

These cables are suitable for use where, in continuous service, no combination of ambient temperature and conductorcurrent produces a stabilized conductor temperature which exceeds 105^{0}C. These cables are also suitable for fixed wiring in aircraft when temperature up to -75^{0}C are encountered, but are not suitable for severe flexing at temperatures below -30^{0}C.

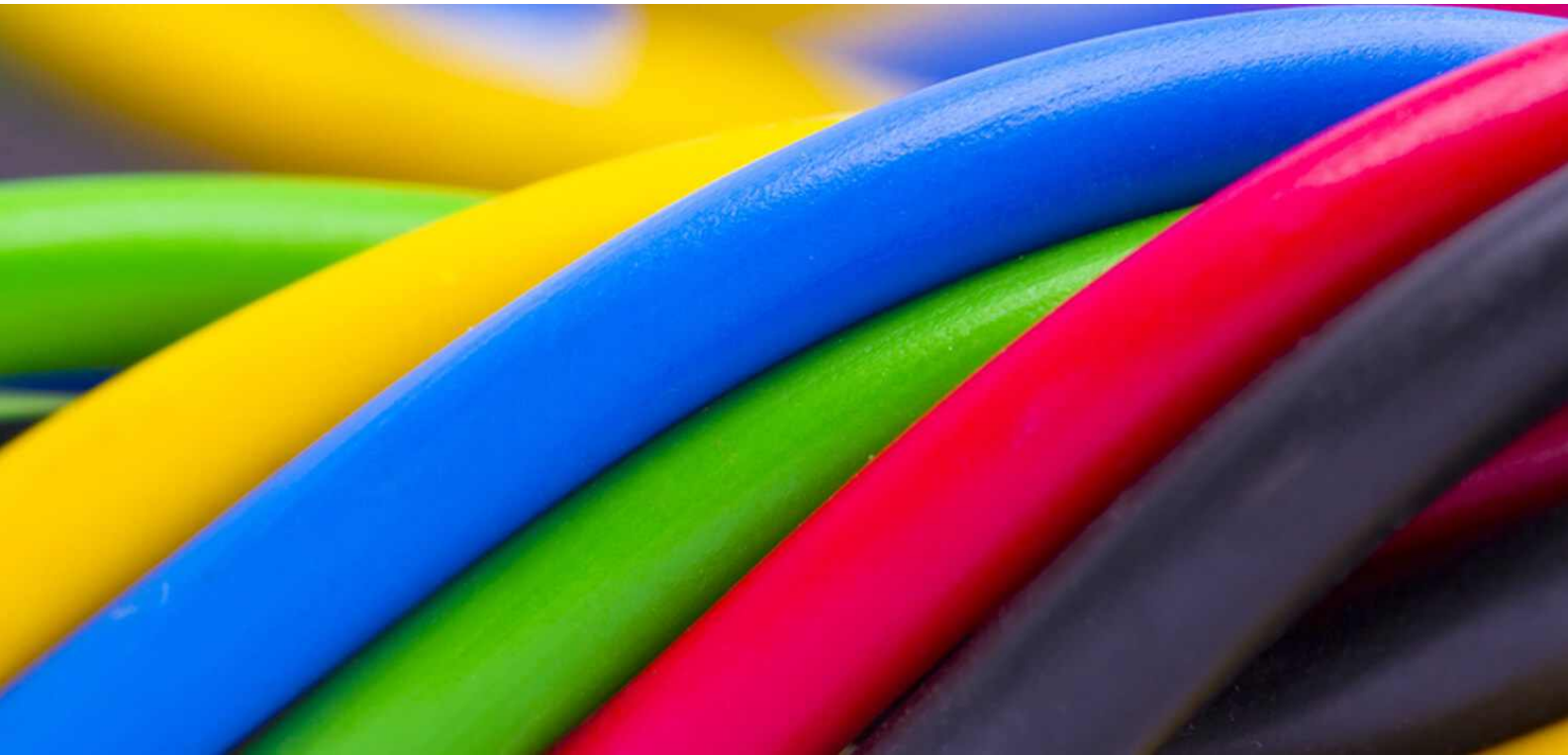
These cables do not support combustion. These cables are suitable for use in areas where ester-base fluids are present. Maximum working voltage is 600 Volts, Maximum frequency is 1600 Hz and operating temperature range -30^{0}C to 105^{0}C.

Nyvin type single core elctric cables are made out of Annealed Tinned Copper Conductor, Heat Resistant (HR 105^{0}C) PVC, Fiber Glass Braids, Nyvin Braids, Nylon sheathing and Nylon Lacquer etc. These cables can be supplied in the from of wireor in the form of wiring harness/ cable assemblies.

CABLE NAME	CROSS SECTION AREA SQ. MM	CONDUCTOR CONSTRUCTION NOS./DIA MM	DIA OF CONDUCTOR		INSULATION THICKNESS MINIMUM IN MM	OVELALL DIAMETER OF FINISH CABLE		MAXIMUM CONDUCTOR RESISTANCE AT 20°C IN OHMS/KM	MAXIMUM CONTINOUS RATING IN FREE AIR			
			MAX. IN MM	MIN. IN MM		MAX. IN MM	MIN. IN MM		SINGLE CABLE IN Amps at 20C	3 Bunched CABLE IN Amps	7 Bunched CABLE IN Amps	12 Bunched CABLE IN Amps
22	0.347	19/0.152	0.838	0.737	0.229	2.0	1.8	54.312	11	7	5	4
20	0.566	19/0.193	1.041	0.940	0.229	2.3	2.0	33.85	14	9	7	5
18	0.966	33/0.193	1.321	1.249	0.229	2.5	2.3	19.49	23	13	10	6
16	1.17	40/0.193	1.549	1.397	0.229	2.8	2.5	16.08	27	15	11	7
14	2.05	70/0.193	1.956	1.803	0.279	3.4	3.0	9.20	40	24	17	12
12	3.22	110/0.193	2.438	2.286	0.279	3.8	3.5	5.85	55	30	22	15
10	5.33	73/0.305	3.150	2.896	0.381	5.0	4.6	3.532	78	47	36	25
8	8.76	120/0.305	1.242	3.937	0.381	6.3	5.9	2.154	111	65	49	36
6	13.3	182/0.305	5.537	5.080	0.381	7.6	7.3	1.422	148	87	65	-
4	21.5	294/0.305	6.909	6.452	0.483	9.3	8.8	0.877	205	120	92	-
2	33.3	203/0.457	8.763	8.128	0.483	11.0	10.5	0.565	256	155	120	-
1	40.7	248/0.457	9.754	9.119	0.559	12.2	11.7	0.463	282	165	130	-
0	53.0	323/0.457	10.973	10.338	0.635	13.7	13.0	0.355	308	185	168**	-
00	68.3	416/0.457	12.446	11.684	0.686	15.4	14.6	0.276	346	210/240*	190**	-
000	84.2	513/0.457	13.999	13.157	0.762	16.9	16.1	0.223	386	235/265*	210**	-
0000	109.0	666/0.457	15.621	14.859	0.787	18.7	17.9	0.173	450	270/305*	245**	-

* Denotes two cables only ** Denotes five cable only

These current rating are based on a temperature rise of 40°C and allow for an ambient temperature of 65°C. The maximum permissible conductor temperature is 105°C. If the ambient temperature "t" is continuously in excess of 65°C, the current should be multiplied by the factor "k" where, $k = \sqrt{\frac{105 - t}{40}}$



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