

ISO 9001, 14001, 45001 Certified
MFG: ALL TYPES OF LT CABLES

one stop
solution for
wires & cables

“
We aim to become a
true market leader in
manufacturing Wires
and Cables meant
for the applications in
distinctive industry.
”

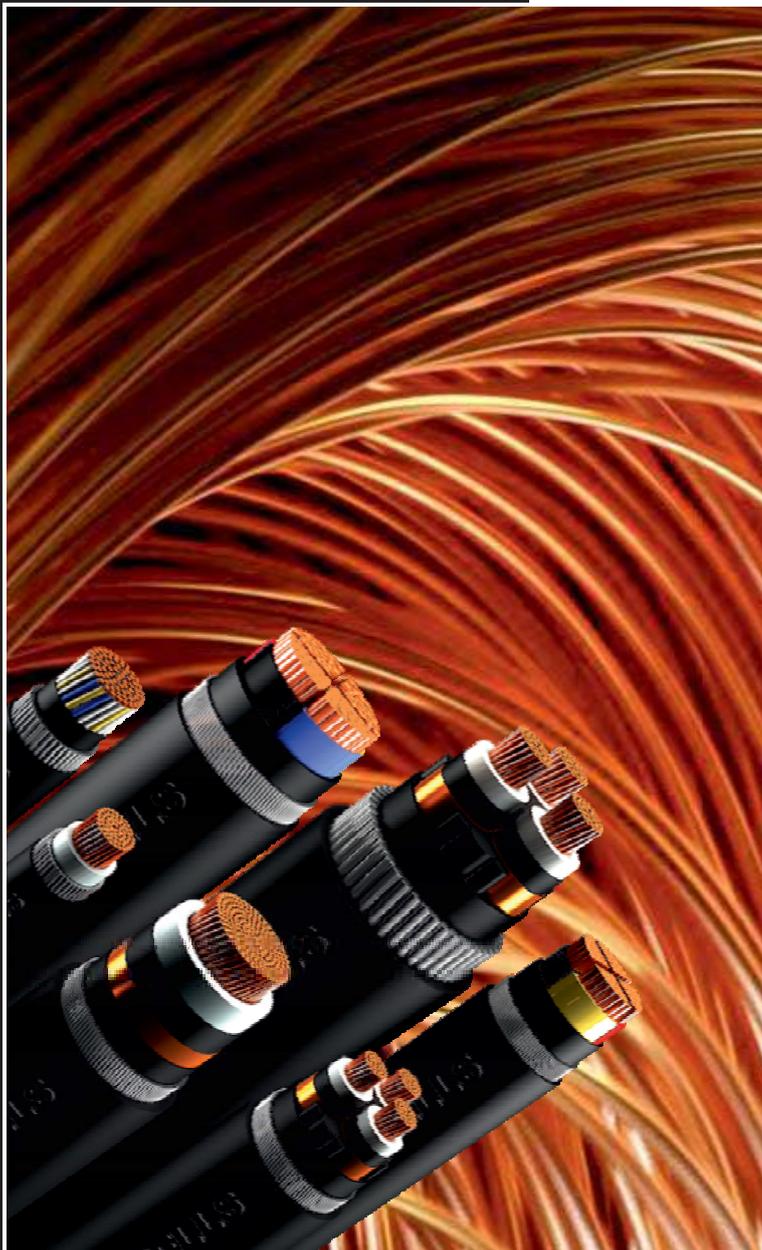


ABOUT COMPANY

“KDI Power” is an esteemed manufacturer of Wires and Cables in India. Being 9001/2015, 14001/2015 & 45001/2018 ISO certified organization; we are involved in manufacturing the wide range of Wires and Cables comprising Power Cables, Control Cables, ABC Cables, and House Wires & Cables. The Power Cable and Wires are valued by the clients for its unmatched quality, ductility in tension, tensile strength, Young’s modulus, bending span and three- point bending. We offer customized range of Cables and Wires to meet their distinctive requirement.

WHAT WE DO

Our products are manufactured in tandem with the upgraded trends and techniques at our manufacturing unit. We are backed by the state of the art infrastructure facility which is operated by the team of highly skilled professionals to ensure fabrication of flawless range of LT wires & cables. Due to our ethical business practices, we are acclaimed by the clients for offering international quality wires and cables to attain their maximum satisfaction.





PRODUCT RANGE



Flexible P.V.C. Insulated & Sheathed Cable / Cords / Fixed Wiring Cable
IS: 694/2010



Fire Survival & Fire Alarm Cable / High Temperature Cable
As per BS:6387



Copper / Aluminium Conductor P.V.C. Armoured / Unarmoured / FRLS Cable / Copper Conductor P.V.C. Insulated Multi Core Cable
IS: 1554 (Part-1) 1988



Elastomeric Composite Cable
As per IS: 9968 (Part-1)



Copper / Aluminium Conductor XLPE Armoured / Unarmoured Cable
IS: 7098 (Part-1) 1988 | BS:5467BS:6724



Thermocouple Extension / Compensating Cable
As per IS: 8784/1987 | ANSIMC:96.1
DIN 43714 & 43710IEC:60584-3



Aerial Bunched Cable
IS:14255/1995



Elastomeric Trailing Cable
As per IS-9968 (Part-1) 1988. | IS:4289 (Pt-1)
IEC:60245-1 | UL:44



Instrumentation Cable
As per BS: 5308 (Pt-1 & 2)



Ship Wiring & Instrumentation Cable
As Per DGS 211&212 | UL:1309
IEC: 92-3 | IEC:350, 353



Solar Power Cable (Ultra Violet Protected)
IS:1554 (PT-1) | IS:7098 (PT-1) | IS:694



Wind Power Cable
As per IS : 9968 (PT-1) / 1988



Load Cell Cable
As per BS :5308 (Part-2)



Submersible Cable
IS:694 / 2010



PVC INSULATED UNSHEATHED SINGLE CORE FLEXIBLE WIRES WITH HIGH CONDUCTIVITY PLAIN ANNEALED ELECTROLYTIC GRADE COPPER CONDUCTOR 1100 VOLTS AS PER IS:694/2010

Nominal cross sectional area of the conductor	Nos./nominal dia. of Strand	Nominal thickness of insulation	Maximum overall dia	Max. Conductor resistance	Current Rating
Sq.mm.	No./ mm.	mm.	mm.	Ohm/Km at 20°C	Amps
0.5	16/0.20	0.6	2.6	39.0	4
0.75	24/0.20	0.6	2.8	26.0	7
1.0	32/0.20	0.6	3.0	19.5	12
1.5	30/0.25	0.7	3.4	13.3	16
2.5	50/0.25	0.8	4.1	7.98	22
4.0	56/0.30	0.8	4.8	4.95	29
6.0	84/0.30	0.8	5.3	3.30	37
10	80/0.40	1.0	7.0	1.91	51
16	126/0.40	1.0	8.1	1.21	68
25	196/0.40	1.2	10.2	0.780	86
35	276/0.40	1.2	11.7	0.554	110
50	396/0.40	1.4	13.9	0.386	145
70	360/0.50	1.4	16.0	0.272	215
95	475/0.50	1.6	18.2	0.206	260
120	608/0.50	1.6	20.2	0.161	305
150	756/0.50	1.8	22.5	0.129	355
185	925/0.50	2.0	24.9	0.106	415
240	1221/0.50	2.2	28.4	0.0801	500

INSTRUMENTATION CABLES

- Product range: 0.50sqmm to 2.5sqmm
- Overall shielded pair: armoured /unarmoured
- Overall shielded triad: armoured /unarmoured
- Individual shielded pair & overall shielded pair armoured and unarmoured cables
- Individual shielded triad & overall shielded triad armoured and unarmoured cables
- Multi core armoured and unarmoured cables



SOLAR CABLES

Offers flexible solar cables that are designed to meet the harsh environmental conditions typical of photovoltaic installations the flexible, dual wall, halogen free, flame retardant low smoke and cross-linked solar cables offers long term stability. its outstanding features include: high resistance against environmental conditions such as humidity UV radiation and ozone besides excellent resistance abrasion and temperature extremes, tin plated copper conductor, they are easy to handle, bend, route, and to strip. sunlight, gasoline, and petroleum resistance make this an ideal cable ensuring long term photovoltaic system performance for any solar installation



Option - 1 annealed bare copper conductor, UV-XLPE insulated and UV-PVC sheath

Option - 2 annealed bare copper conductor, cross linked polyethylene low smoke zero halogen insulated and sheathed

Option -3 annealed tinned copper conductor, cross linked polyethylene low smoke zero halogen insulated sheathed

Option - 4 annealed tinned copper conductor cross linked polyethylene low smoke zero halogen insulated and sheathed





SINGLE CORE PVC INSULATED ARMOURED & UNARMOURED CABLE WITH ALUMINIUM / COPPER CONDUCTOR AS PER IS:1554(PT-1) / 1988

Area	Cond. Min. No. of Wires		Thickness of PVC Insulation (nom)		Dimension of Armoured Wire/Strip	Thickness of PVC Outer sheath		Approx. Overall diameter		Approx. Net Wt. of Cable				Max. D.C./ resistance at 20 Deg. C		Approx. AC resistance at operating Temp 70°C		Approx. Capacitance per Phase		Current Rating						Short Circuit Rating for 1 Sec.	
			Arm	Un. Arm		Arm	Un. Arm	Arm	Un. Arm	Armoured	Unarmoured	Al	Cu	Al	Cu	Al	Cu	Al/Cu	Un-Arm	Direct in Ground	in duct		in Air				
Sq./mm.	No.		mm		mm	mm		mm		Kg / Km				Ohm/Km		Ohm/Km		µF/KM		Amps		Amps		Amps		KA(rms)	
Al/Cu.	Al	Cu	Al/Cu.	Al/Cu.	Al	Al/Cu.	Al/Cu.	Al/Cu.	Al/Cu.	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu
4	1.0	1.0	1.3	1.0	1.4	1.24	1.80	10.7	8.3	145	180	85	110	7.41	4.61	8.9	5.52	-----	0.57	31	39	30	38	27	35	0.304	0.46
6	1.0	1.0	1.3	1.0	1.4	1.24	1.80	11.6	9.2	165	220	100	140	4.61	3.08	5.54	3.69	-----	0.67	39	49	37	48	35	44	0.456	0.69
10	1.0	7.0	1.3	1.0	1.4	1.24	1.80	12.5	10.1	190	280	120	200	3.08	1.83	3.70	2.19	0.67	0.83	51	65	51	64	47	60	0.76	1.15
16	7.0	7.0	1.3	1.0	1.4	1.24	1.80	13.2	10.8	245	350	150	270	1.91	1.15	2.30	1.38	0.80	0.97	66	85	65	83	64	82	1.22	1.84
25	7.0	7.0	1.5	1.2	1.4	1.24	1.80	14.8	12.4	305	480	210	380	1.20	0.727	1.44	0.87	0.83	1.0	86	110	84	110	84	110	1.90	2.88
35	7.0	7.0	1.5	1.2	1.4	1.24	1.80	15.8	13.4	360	600	250	480	0.868	0.524	1.04	0.627	0.95	1.15	100	130	100	125	105	130	2.66	4.03
50	7.0	7.0	1.7	1.4	1.4	1.24	1.80	17.6	15.2	450	750	320	625	0.641	0.387	0.77	0.463	0.95	1.26	120	155	115	150	130	165	3.80	5.75
70	19	19	1.7	1.4	1.4	1.40	1.80	19.6	16.8	570	1000	400	850	0.443	0.268	0.532	0.321	1.12	1.32	140	190	135	175	155	205	5.32	8.05
95	19	19	1.9	1.6	4x0.8	1.40	1.80	20.9	18.9	650	1300	525	1150	0.320	0.193	0.385	0.231	1.17	1.36	175	220	155	200	190	245	7.22	10.9
120	19	19	1.9	1.6	4x0.8	1.40	2.00	22.4	20.8	760	1550	620	1400	0.253	0.153	0.305	0.184	1.28	1.49	195	250	170	220	220	280	9.12	13.8
150	19	19	2.1	1.8	4x0.8	1.40	2.00	24.3	22.7	900	1900	750	1700	0.206	0.124	0.249	0.149	1.32	1.52	220	280	190	245	250	320	11.4	17.3
185	37	37	2.3	2.0	4x0.8	1.40	2.00	26.4	24.8	1065	2300	900	2100	0.164	0.0991	0.199	0.120	1.34	1.47	240	305	210	260	290	370	14.1	21.3
240	37	37	2.5	2.2	4x0.8	1.40	2.00	29.1	27.4	1320	2950	1125	2700	0.125	0.0754	0.152	0.0912	1.37	1.54	270	345	225	285	335	425	18.2	27.6
300	37	37	2.7	2.4	4x0.8	1.56	2.00	32.1	30.0	1595	3600	1380	3350	0.100	0.0601	0.123	0.0739	1.40	1.60	295	375	245	310	380	475	22.8	34.5
400	61	61	3.0	2.6	4x0.8	1.56	2.20	36.0	34.2	1970	4500	1725	4250	0.0778	0.0470	0.0975	0.0592	1.45	1.70	325	400	275	335	435	550	30.4	46.0
500	61	61	3.4	3.0	4x0.8	1.56	2.20	39.6	37.8	2450	5660	2190	5400	0.0605	0.0366	0.0767	0.0468	1.48	1.63	345	425	295	355	480	590	38.0	57.7
630	61	61	3.9	3.4	4x0.8	1.72	2.40	44.7	42.7	3100	7300	2800	6750	0.0469	0.0283	0.0614	0.0379	1.50	1.64	390	470	320	375	550	660	47.9	72.5
800	91	91	3.9	3.4	4x0.8	1.88	2.40	49.4	47.1	3780	9000	3380	8700	0.0367	0.0221	0.0510	0.0314	1.65	1.87	440	530	345	405	600	725	60.8	92.0
1000	91	91	3.9	3.4	4x0.8	2.04	2.60	53.7	51.5	4550	11100	4100	10700	0.0291	0.0176	0.0420	0.0271	1.76	2.05	490	590	370	435	720	870	76.0	115.0



2 CORE PVC INSULATED ARMOURED & UNARMOURED CABLE WITH ALUMINIUM / COPPER CONDUCTOR AS PER IS:1554 (PT-1) / 1988

Area	Cond. Min. No. of Wires		Thickness of PVC Insulation (non)	Thick of Inner Sheath	Dimension of Armoured Wire / Strip	Thickness of PVC Outersheath		Approx. Overall diameter		Approx. Net Wt. of Cable				Max. D.C./ resistance at 20 Deg. C		Approx. A.C. resistance at operating Temp 70°C		Approx. Capacitance per Phase		Current Rating						Short Circuit Rating for 1 Sec.	
						Arm	Un. Arm	Arm	Un. Arm	Armoured	Unarmoured	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al/Cu	Un-Arm	Direct in Ground	in duct		in Air		
Sq./mm.	No.		mm	mm	mm	mm		mm		Kg / Km				Ohm/Km		Ohm/Km		µF/KM		Amps		Amps		Amps		KA(rms)	
Al/Cu.	Al	Cu	Al/Cu.	Al/Cu.	Al/Cu	Al/Cu.	Al/Cu.	Al/Cu.	Al/Cu.	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu
2.5	1.0	1.0	0.9	0.3	1.4	1.24	1.8	14.8	13.0	425	470	185	235	12.1	7.41	14.5	8.87	0.13	0.13	25	32	21	27	21	27	0.19	0.288
4	1.0	1.0	1.0	0.3	1.4	1.24	1.8	16.1	14.3	500	550	215	280	7.41	4.61	8.9	5.52	0.14	0.14	32	41	27	35	27	35	0.304	0.46
6	1.0	7.0	1.0	0.3	1.4	1.24	1.8	18.1	16.3	550	650	260	350	4.61	3.08	5.54	3.69	0.16	0.16	40	50	34	44	35	45	0.456	0.69
10	1.0	7.0	1.0	0.3	1.4	1.24	1.8	19.5	17.7	635	800	320	450	3.08	1.83	3.70	2.19	0.18	0.18	55	70	45	58	47	60	0.760	1.15
16	7.0	7.0	1.0	0.3	4x0.8	1.40	1.8	17.5	16.4	680	850	350	550	1.91	1.15	2.30	1.38	0.19	0.19	70	90	58	75	59	78	1.22	1.84
25	7.0	7.0	1.20	0.3	4x0.8	1.40	2.0	20.1	19.4	725	1050	450	800	1.20	0.727	1.44	0.87	0.22	0.22	90	115	76	97	78	105	1.90	2.88
35	7.0	7.0	1.20	0.3	4x0.8	1.40	2.0	21.5	20.8	850	1300	550	1000	0.868	0.524	1.04	0.627	0.24	0.24	110	140	92	120	99	125	2.66	4.03
50	7.0	19	1.40	0.3	4x0.8	1.40	2.0	24.1	23.4	1025	1600	725	1300	0.641	0.387	0.77	0.463	0.24	0.24	135	165	115	145	125	155	3.80	5.75
70	19	19	1.40	0.3	4x0.8	1.56	2.0	26.7	25.6	1250	2100	880	1750	0.443	0.268	0.532	0.321	0.26	0.26	160	205	140	180	150	195	5.32	8.05
95	19	19	1.60	0.4	4x0.8	1.56	2.2	30.1	29.4	1550	2750	1190	2350	0.32	0.193	0.384	0.231	0.26	0.26	190	240	170	215	185	230	7.22	10.9
120	19	19	1.60	0.4	4x0.8	1.56	2.2	32.1	31.4	1800	3300	1350	2850	0.253	0.153	0.304	0.184	0.28	0.28	210	275	190	235	210	265	9.12	13.8
150	19	19	1.80	0.4	4x0.8	1.72	2.4	34.7	34.0	2080	3950	1650	3500	0.206	0.124	0.248	0.149	0.28	0.28	240	310	210	270	240	305	11.4	17.3
185	37	37	2.00	0.5	4x0.8	1.88	2.4	38.0	37.0	2500	4800	1950	4300	0.164	0.0991	0.198	0.120	0.28	0.28	275	350	240	300	275	350	14.1	21.3
240	37	37	2.20	0.5	4x0.8	2.04	2.6	43.0	42.0	3100	6100	2450	5500	0.125	0.0754	0.152	0.0912	0.28	0.28	320	405	275	345	325	410	18.2	27.6
300	37	37	2.40	0.6	4x0.8	2.20	2.8	46.5	45.6	3720	7500	2970	6850	0.100	0.0601	0.122	0.0739	0.29	0.29	355	430	305	385	365	465	22.8	34.5
400	61	61	2.60	0.7	4x0.8	2.36	3.2	52.3	51.8	4550	9400	3820	8750	0.0778	0.0470	0.096	0.0592	0.29	0.29	385	490	345	425	420	530	30.4	46.0
500	61	61	3.00	0.7	4x0.8	2.84	3.4	58.7	57.6	5650	11900	4775	11200	0.0605	0.0366	0.076	0.0468	0.29	0.29	415	520	365	460	455	575	38.0	57.5
630	61	61	3.40	0.7	4x0.8	2.84	3.8	64.8	64.4	6950	15200	6045	14500	0.0469	0.0283	0.061	0.0379	0.29	0.29	460	565	405	510	520	655	47.9	72.5



3 CORE PVC INSULATED ARMOURED & UNARMOURED CABLE WITH ALUMINIUM / COPPER CONDUCTOR AS PER IS:1554 (PT-1) / 1988

Area	Cond. Min. No. of Wires		Thickness of PVC Insulation (non)	Thick of Inner Sheath	Dimension of Armoured Wire / Strip	Thickness of PVC Outersheath		Approx. Overall diameter				Approx. Net Wt. of Cable				Max. D.C./ resistance at 20 Deg. C		Approx. A.C. resistance at operating Temp 70°C		Approx. Capacitance per Phase		Current Rating						Short Circuit Rating for 1 Sec.			
	Sq./mm.	No.				mm	mm	mm	mm	mm	mm	mm	mm	Armoured		Unarmoured		Ohm/Km		Ohm/Km		µF/KM		Amps		Amps		Amps		KA(rms)	
														Al/Cu.	Al	Cu	Al/Cu.	Al/Cu.	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
2.5	1	1	0.9	0.3	1.4	1.24	1.8	15.5	13.7	470	525	210	250	12.1	7.41	14.5	8.87	0.335	0.355	21	27	18	24	18	24	0.190	0.28				
4	1	1	1.0	0.3	1.4	1.24	1.8	16.8	15.0	550	625	245	325	7.41	4.61	8.9	5.52	0.395	0.395	28	36	23	30	23	30	0.304	0.46				
6	1	1	1.0	0.3	1.4	1.24	1.8	19.0	17.2	620	750	290	410	4.61	3.08	5.54	3.69	0.435	0.435	35	45	30	38	30	38	0.456	0.69				
10	1	1	1.0	0.3	4x0.8	1.24	1.8	21.0	18.9	715	975	375	580	3.08	1.83	3.70	2.19	0.495	0.495	46	60	39	50	40	52	0.760	1.15				
16	7	7	1.0	0.3	4x0.8	1.4	1.8	20.2	19.1	710	1025	450	750	1.91	1.15	2.30	1.38	0.560	0.560	60	77	50	64	51	66	1.220	1.84				
25	7	7	1.2	0.3	4x0.8	1.4	2.0	22.5	21.5	900	1400	600	1100	1.20	0.727	1.44	0.87	0.620	0.620	76	99	63	81	70	90	1.900	2.88				
35	7	7	1.2	0.3	4x0.8	1.4	2.0	24.2	23.5	1050	1700	740	1400	0.868	0.524	1.04	0.627	0.660	0.660	92	120	77	99	86	110	2.660	4.03				
50	7	7	1.4	0.3	4x0.8	1.56	2.0	27.6	26.5	1300	2200	920	1850	0.641	0.387	0.77	0.463	0.700	0.700	110	145	95	125	105	135	3.800	5.75				
70	19	19	1.4	0.4	4x0.8	1.56	2.2	30.9	30.0	1650	2900	1220	2500	0.443	0.268	0.532	0.321	0.730	0.730	135	175	115	150	130	165	5.320	8.05				
95	19	19	1.6	0.4	4x0.8	1.56	2.2	34.1	33.2	2050	3800	1570	3320	0.320	0.193	0.385	0.231	0.760	0.760	165	210	140	175	155	200	7.220	10.09				
120	19	19	1.6	0.4	4x0.8	1.72	2.2	37.3	36.2	2400	4600	1800	4040	0.253	0.153	0.305	0.184	0.780	0.780	185	240	155	195	180	230	9.120	13.8				
150	19	19	1.8	0.5	4x0.8	1.88	2.4	41.0	40.0	2850	5600	2230	5000	0.206	0.124	0.249	0.149	0.795	0.795	210	270	175	225	205	265	11.40	17.3				
185	37	37	2.0	0.5	4x0.8	1.88	2.6	44.9	44.3	3400	6850	2750	6200	0.164	0.0991	0.198	0.120	0.810	0.810	235	300	200	255	240	305	14.10	21.3				
240	37	37	2.2	0.6	4x0.8	2.2	2.8	50.7	49.8	4250	8800	3440	8000	0.125	0.0754	0.152	0.0912	0.820	0.820	275	345	235	295	280	355	18.20	27.6				
300	37	37	2.4	0.6	4x0.8	2.36	3.0	56.0	55.1	5100	10800	4250	9950	0.100	0.0601	0.123	0.0739	0.825	0.825	305	385	260	335	315	400	22.80	34.5				
400	61	61	2.6	0.7	4x0.8	2.52	3.4	62.7	62.0	6300	13700	5400	12700	0.0778	0.0470	0.0975	0.0592	0.830	0.830	335	425	290	360	375	455	30.40	46.0				
500	61	61	3.0	0.7	4x0.8	2.84	3.6	70.1	69.3	7850	17250	6800	16200	0.0605	0.0366	0.0767	0.0468	1.100	1.100	355	440	315	390	405	500	38.00	57.5				



3 1/2 CORE PVC INSULATED ARMOURED & UNARMOURED CABLE WITH ALUMINIUM / COPPER CONDUCTOR AS PER IS:1554 (PT-1) / 1988

Area	Cond. Min. No. of Wires		Thickness of PVC Insulation (nom.)	Thick of Inner Sheath	Dimension of Armoured Wire / Strip	Thickness of PVC Outersheath		Approx. Overall diameter				Approx. Net Wt. of Cable				Max. D.C./ resistance at 20 Deg. C		Approx. A.C. resistance at operating Temp 70°C		Approx. Capacitance per Phase		Current Rating						Short Circuit Rating for 1 Sec.			
	Sq./mm.	No.				mm	mm	mm	mm	mm	mm	mm	mm	Armoured		Unarmoured		Ohm/Km		Ohm/Km		µF/KM		Amps		Amps		Amps		KA(rms)	
														Al/Cu.	Al	Cu	M/N.	Al/Cu.	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu
25	7	7	1.2/1.0	0.3	4x0.8	1.4	2.0	24.0	23.5	1010	1600	690	1295	1.20	0.727	1.44	0.873	0.86	0.86	76	99	63	81	70	90	1.9	2.88				
35	7	7	1.2/1.0	0.3	4x0.8	1.4	2.0	26.1	25.5	1200	1950	825	1600	0.868	0.525	1.04	0.629	0.98	0.98	92	120	77	99	86	110	2.66	4.03				
50	7	7	1.4/1.20	0.3	4x0.8	1.56	2.0	29.4	28.5	1520	2600	1075	2200	0.641	0.387	0.77	0.465	1.00	1.00	110	145	95	125	105	135	3.8	5.75				
70	19	19	1.4/1.20	0.4	4x0.8	1.56	2.2	33.0	32.0	1850	3400	1400	3000	0.443	0.268	0.532	0.322	1.16	1.16	135	175	115	150	130	165	5.32	8.05				
95	19	19	1.6/1.40	0.4	4x0.8	1.56	2.2	37.0	36.0	2320	4450	1810	4000	0.32	0.193	0.385	0.233	1.18	1.18	163	210	140	175	155	200	7.22	10.9				
120	19	19	1.6/1.40	0.5	4x0.8	1.72	2.4	40.5	40.0	2750	5550	2190	5000	0.253	0.153	0.305	0.185	1.31	1.31	185	240	155	195	180	230	9.12	13.8				
150	19	19	1.8/1.40	0.5	4x0.8	1.88	2.4	44.3	43.5	3220	6550	2550	5900	0.206	0.124	0.249	0.145	1.28	1.28	210	270	175	225	205	265	11.4	17.3				
185	37	37	2.0/1.6	0.5	4x0.8	2.04	2.6	48.9	48.0	3900	8150	3150	7400	0.164	0.0991	0.198	0.121	1.30	1.30	235	300	200	255	240	305	14.1	21.3				
240	37	37	2.2/1.6	0.6	4x0.8	2.20	3.0	55.0	55.0	4850	10300	4050	9500	0.125	0.0754	0.152	0.094	1.34	1.34	275	345	235	295	280	355	18.2	27.6				
300	37	37	2.4/1.8	0.6	4x0.8	2.36	3.2	60.6	60.1	5800	12700	4950	11800	0.100	0.0601	0.123	0.075	1.37	1.37	305	385	260	335	315	400	22.8	34.5				
400	61	61	2.6/2.0	0.7	4x0.8	2.68	3.4	69.1	68.5	7250	16300	6300	15000	0.0778	0.0470	0.0975	0.061	1.43	1.43	335	425	290	360	375	455	30.4	46.0				
500	61	61	3.0/2.2	0.7	4x0.8	2.84	3.8	76.9	76.5	9100	20200	7900	19000	0.0605	0.0366	0.0767	0.049	1.41	1.41	355	440	315	390	405	500	38.0	57.5				



4 CORE PVC INSULATED ARMoured & UNARMoured CABLE WITH ALUMINIUM / COPPER CONDUCTOR AS PER IS:1554 (PT-1) / 1988

Area	Cond. Min. No. of Wires		Thickness of PVC Insulation (non)	Thick of Inner Sheath	Dimension of Armoured Wire / Strip	Thickness of PVC Outsheath		Approx. Overall diameter		Approx. Net Wt. of Cable				Max. D.C./ resistance at 20 Deg. C		Approx. A.C. resistance at operating Temp 70°C		Approx. Capacitance per Phase		Current Rating						Short Circuit Rating for 1 Sec.				
	Sq./mm.	No.				mm	mm	mm	mm	mm	mm	mm	Kg / Km				Ohm/Km		Ohm/Km		µF/KM		Amps		Amps		Amps		KA(rms)	KA(rms)
													Armoured	Unarmoured	Arm	Un. Arm	Arm	Un. Arm	Arm	Un. Arm	Arm	Un. Arm	Arm	Un. Arm	Direct in Ground	in duct	in Air			
Al/Cu.	Al	Cu	Al/Cu.	Al/Cu.	Al/Cu.	Al/Cu.	Al/Cu.	Al/Cu.	Al/Cu.	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al/Cu	Al/Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	
2.5	1	1	0.9	0.3	1.4	1.24	1.8	16.5	14.8	520	580	230	320	12.1	7.41	14.5	8.87	0.355	0.355	21	27	18	24	18	24	0.19	0.288			
4	1	1	1.0	0.3	1.4	1.24	1.8	17.5	15.8	610	720	285	400	7.41	4.61	8.9	5.52	0.395	0.395	28	36	23	30	23	30	0.3	0.46			
6	1	1	1.0	0.3	1.4	1.24	1.8	18	17.5	680	850	340	500	4.61	3.08	5.54	3.69	0.435	0.435	35	45	30	38	30	39	0.46	0.69			
10	1	1	1.0	0.3	4X0.8	1.4	1.8	21.5	20.5	700	1000	430	710	3.08	1.83	3.70	2.19	0.495	0.495	46	60	39	50	40	52	0.765	1.15			
16	7	7	1.0	0.3	4X0.8	1.4	2.0	22	21.5	840	1250	550	950	1.91	1.15	2.30	1.38	0.56	0.56	60	77	50	64	51	66	1.22	1.84			
25	7	7	1.2	0.3	4X0.8	1.4	2.0	25	25	1080	1750	720	1400	1.20	0.727	1.44	0.87	0.62	0.62	76	99	63	81	70	90	1.9	2.88			
35	7	7	1.2	0.3	4X0.8	1.4	2.0	27.5	27	1300	2200	890	1800	0.868	0.524	1.04	0.627	0.66	0.66	92	120	77	99	86	110	2.66	4.03			
50	7	7	1.4	0.4	4X0.8	1.56	2.2	33	31	1650	2850	1200	2400	0.641	0.387	0.77	0.463	0.7	0.7	110	145	95	125	105	135	3.8	5.57			
70	19	19	1.4	0.4	4X0.8	1.56	2.2	35	34.5	2050	3750	1520	3250	0.443	0.268	0.532	0.321	1.16	1.16	135	175	115	150	130	165	6.32	8.05			
95	19	19	1.6	0.4	4X0.8	1.72	2.4	40	38.5	2570	4950	2000	4400	0.32	0.193	0.385	0.231	1.18	1.18	165	210	140	175	155	200	7.22	10.9			
120	19	19	1.6	0.5	4X0.8	1.88	2.4	43	42	3100	6050	2350	5400	0.253	0.153	0.305	0.184	1.31	1.31	185	240	155	195	180	230	9.12	13.8			
150	19	19	1.8	0.5	4X0.8	1.88	2.6	47	46.5	3570	7300	2890	6600	0.206	0.124	0.249	0.149	1.28	1.28	210	270	175	225	205	265	11.4	17.3			
185	37	37	2.0	0.6	4X0.8	2.04	2.8	52	51.5	4350	9000	3600	8250	0.164	0.0991	0.198	0.120	1.3	1.3	235	300	200	255	240	305	14.1	21.3			
240	37	37	2.2	0.6	4X0.8	2.36	3.0	59	58	5450	11500	4550	10650	0.125	0.0754	0.152	0.0912	1.34	1.34	275	345	235	295	280	355	18.2	27.6			
300	37	37	2.4	0.7	4X0.8	2.52	3.4	66	65	6540	14300	5650	13300	0.100	0.0601	0.123	0.0739	1.37	1.37	305	385	260	335	315	400	22.8	34.5			
400	61	61	2.6	0.7	4X0.8	2.68	3.6	73.5	73	8160	18000	7100	16800	0.0778	0.0470	0.0975	0.0592	1.43	1.43	335	425	290	360	375	455	30.4	46.0			
500	61	61	3.0	0.7	4X0.8	3.0	4.0	83.5	83	10200	22800	9000	21500	0.0605	0.0366	0.0767	0.0468	1.41	1.41	370	440	320	390	540	500	37.9	57.5			

COPPER CONDUCTOR, PVC INSULATED & PVC SHEATHED ARMoured CONTROL CABLE AS PER IS:1554 (PT-1) / 1988

Number of Cores		2	3	4	5	6	7	10	12	14	19	24	30	37
Nom. Insulation thickness	mm.	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Nom. Overall cable dia	mm.	9	10	11	12	13	14	16	17	18	20	23	24	26
Approx. Weight	Kg/Km.	140	160	190	250	260	275	350	400	450	590	720	860	1020
Armoured YFY/YWY 1.5 Sq.mm.														
Type		YWY	YFY	YFY	YFY	YFY	YFY							
Nom. Overall dia	mm.	12	13	14	15	16	17	18	18	19	21	24	25	27
Approx. Weight	Kg/Km.	380	400	455	524	573	595	752	673	673	915	1105	1267	1463
Current carrying capacity														
- In ground	Amps.	23	21	21	21	15	14	13	12	11	10	9	9	8
- In air	Amps.	20	17	17	17	13	13	11	10	10	9	8	7	7
Nominal cross sectional area of conductor 2.5sqmm														
Number of Cores		2	3	4	5	6	7	10	12	14	19	24	30	37
Nom. Insulation thickness	mm.	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
Nom. Overall dia	mm.	11	12	13	14	15	16	19	20	21	23	26	28	31
Approx. Weight	Kg/Km.	184	216	258	306	345	355	508	588	680	865	1063	1285	1586
Armoured YFY/YWY 2.5 sq.mm.														
Type		YWY	YWY	YWY	YWY	YWY	YWY	YFY	YFY	YFY	YFY	YFY	YFY	YFY
Nom. Overall dia	mm.	13	14	15	16	17	18	20	21	22	24	28	29	32
Approx. Weight	Kg/Km.	455	495	560	650	705	722	812	912	985	1224	1486	1765	2050
Current carrying capacity														
- In ground	Amps.	32	27	27	27	22	20	18	17	16	14	13	12	11
- In air	Amps.	27	24	24	24	18	17	15	14	13	12	11	10	9

Note : ABOVE CABLE ALSO AVAILABLE UP TO 91 CORES



**1.1 KV SINGLE CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, HARD DRAWN
ALUMINIUM ARMoured / UNARMoured, PVC SHEATHED CABLES AS PER IS:7098 (PART-I) / 1988**

Nominal cross sectional area of conductor	Unarmoured				Nominal thickness of insulation	Armoured			
	Nominal thickness of insulation	Nominal thickness of Outer Sheath	Approx. Overall diameter	Approx. weight of cable		Armours dimensions (wire/strip)	Minimum thickness of outer sheath	Approx. Overall diameter	Approx. weight of cable
Sq.mm.	mm.	mm.	mm.	kg./km.	mm.	mm.	mm.	mm.	kg./km.
1.5	0.70	1.80	6.70	53	-	-	-	-	-
2.5	0.70	1.80	7.10	60	-	-	-	-	-
4	0.70	1.80	7.60	70	-	-	-	-	-
6	0.70	1.80	8.20	83	1.00	1.40	1.24	10.60	140
10	0.70	1.80	9.00	100	1.00	1.40	1.24	11.40	170
16	0.70	1.80	10.20	131	1.00	1.40	1.24	12.70	210
25	0.90	1.80	12.00	180	1.20	1.40	1.24	14.20	275
35	0.90	1.80	13.00	220	1.20	1.40	1.24	15.20	350
50	1.00	1.80	14.50	290	1.30	1.40	1.24	16.80	400
70	1.10	1.80	16.20	350	1.40	1.40	1.24	18.70	500
95	1.10	1.80	18.00	450	1.40	4x0.80	1.40	20.00	580
120	1.20	1.80	19.90	550	1.50	4x0.80	1.40	21.50	700
150	1.40	2.00	22.20	650	1.70	4x0.80	1.40	23.50	810
185	1.60	2.00	24.30	825	1.90	4x0.80	1.40	25.50	970
240	1.70	2.00	26.50	1020	2.00	4x0.80	1.40	28.50	1200
300	1.80	2.00	29.50	1200	2.10	4x0.80	1.56	31.00	1450
400	2.00	2.20	33.00	1550	2.40	4x0.80	1.56	35.00	1750
500	2.20	2.20	36.50	1950	2.60	4x0.80	1.56	38.00	2200
630	2.40	2.20	40.50	2425	2.80	4x0.80	1.72	42.50	2750
800	2.60	2.40	46.50	3050	3.10	4x0.80	1.72	47.50	3350
1000	2.80	2.60	50.00	3750	3.30	4x0.80	1.88	53.50	4170



1.1 KV 2 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured / UNARMoured, PVC SHEATHED CABLES AS PER IS:7098 (PART-I) / 1988

Nominal cross sectional area of conductor	Nominal thickness of insulation	Minimum thickness of Inner Sheath	Unarmoured			Armoured			
			Nominal thickness of Outer Sheath	Approx. Overall diameter	Approx. weight of cable	Armours dimensions (wire/strip)	Minimum thickness of outer sheath	Approx. Overall diameter	Approx. weight of cable
Sq.mm.	mm.	mm.	mm.	mm.	kg./km.	mm.	mm.	mm.	kg./km.
1.5	0.70	0.30	1.80	11.50	172	1.40	1.24	13.40	355
2.5	0.70	0.30	1.80	12.20	193	1.40	1.24	14.20	400
4	0.70	0.30	1.80	13.00	225	1.40	1.24	15.00	450
6	0.70	0.30	1.80	14.30	280	1.40	1.24	16.00	525
10	0.70	0.30	1.80	16.00	325	1.40	1.24	17.50	600
16	0.70	0.30	1.80	17.00	384	1.40	1.40	18.00	630
25	0.90	0.30	2.00	18.50	425	4x0.80	1.40	19.50	650
35	0.90	0.30	2.00	20.00	525	4x0.80	1.40	21.00	750
50	1.00	0.30	2.00	22.00	650	4x0.80	1.40	23.00	915
70	1.10	0.30	2.00	24.80	775	4x0.80	1.56	26.00	1120
95	1.10	0.40	2.20	27.80	1028	4x0.80	1.56	28.50	1400
120	1.20	0.40	2.20	30.50	1208	4x0.80	1.56	31.00	1650
150	1.40	0.40	2.20	32.50	1453	4x0.80	1.72	34.00	1900
185	1.60	0.50	2.40	36.00	1760	4x0.80	1.72	37.00	2250
240	1.70	0.50	2.60	40.50	2225	4x0.80	1.88	41.50	2810
300	1.80	0.60	2.80	43.50	2750	4x0.80	2.04	44.50	3300
400	2.00	0.60	3.00	49.00	3400	4x0.80	2.36	50.50	4160
500	2.20	0.70	3.40	54.50	4250	4x0.80	2.52	55.00	5060
630	2.40	0.70	3.60	61.00	5350	4x0.80	2.68	62.00	6150


**1.1 KV 3 CORE, ALUMINIUM, XLPE INSULATED, ARMoured / UNARMoured,
 PVC SHEATHED CABLES AS PER IS:7098 (PART-I) / 1988**

Nominal cross sectional area of conductor	Nominal thickness of insulation	Minimum thickness of Inner Sheath	Unarmoured			Armoured			
			Nominal thickness of Outer Sheath	Approx. Overall diameter	Approx. weight of cable	Armours dimensions (wire/strip)	Minimum thickness of outer sheath	Approx. Overall diameter	Approx. weight of cable
Sq.mm.	mm.	mm.	mm.	mm.	kg./km.	mm.	mm.	mm.	kg./km.
1.5	0.70	0.30	1.80	12.00	175	1.40	1.24	13.80	405
2.5	0.70	0.30	1.80	13.00	195	1.40	1.24	14.80	455
4	0.70	0.30	1.80	14.00	225	1.40	1.24	15.50	500
6	0.70	0.30	1.80	15.00	300	1.40	1.24	17.00	550
10	0.70	0.30	1.80	17.00	350	1.40	1.24	18.50	650
16	0.70	0.30	1.80	18.00	400	4x0.80	1.24	19.00	700
25	0.90	0.30	2.00	21.00	550	4x0.80	1.40	21.30	800
35	0.90	0.30	2.00	22.80	700	4x0.80	1.40	23.50	1000
50	1.00	0.30	2.00	25.00	850	4x0.80	1.40	25.80	1150
70	1.10	0.40	2.20	30.00	1150	4x0.80	1.56	30.00	1590
95	1.10	0.40	2.20	32.00	1400	4x0.80	1.56	32.50	1800
120	1.20	0.40	2.20	35.50	1700	4x0.80	1.56	35.50	2175
150	1.40	0.50	2.40	39.00	2050	4x0.80	1.72	40.00	2600
185	1.60	0.50	2.60	43.00	2560	4x0.80	1.88	43.00	3050
240	1.70	0.60	2.80	49.00	3210	4x0.80	2.04	49.00	3800
300	1.80	0.60	3.00	53.50	3920	4x0.80	2.20	53.50	4600
400	2.00	0.70	3.20	59.50	4910	4x0.80	2.52	61.00	5750
500	2.20	0.70	3.60	66.50	6150	4x0.80	2.68	67.00	7000
630	2.40	0.70	3.80	74.00	7710	4x0.80	2.84	75.00	8650


**1.1 KV 3 1/2 CORE, ALUMINIUM CONDUCTOR, XLPE INSULATED, ARMoured / UNARMoured,
 PVC SHEATHED CABLES AS PER IS:7098 (PART-I) / 1988**

Nominal cross sectional area of conductor	Nominal thickness of insulation	Minimum thickness of Inner Sheath	Unarmoured			Armoured			
			Nominal thickness of Outer Sheath	Approx. Overall diameter	Approx. weight of cable	Armours dimensions (wire/strip)	Minimum thickness of outer sheath	Approx. Overall diameter	Approx. weight of cable
Sq.mm.	mm.	mm.	mm.	mm.	kg./km.	mm.	mm.	mm.	kg./km.
25	0.90/0.70	0.30	2.0	21.80	630	4x0.80	1.40	23.20	910
35	0.90/0.70	0.30	2.0	25.00	760	4x0.80	1.40	25.00	1050
50	1.00/0.90	0.30	2.0	27.00	930	4x0.80	1.40	28.00	1250
70	1.10/0.90	0.40	2.20	31.00	1260	4x0.80	1.56	32.00	1700
95	1.10/1.00	0.40	2.20	35.00	1680	4x0.80	1.56	35.00	2030
120	1.20/1.10	0.40	2.20	38.00	1930	4x0.80	1.72	39.00	2460
150	1.40/1.10	0.50	2.40	42.50	2330	4x0.80	1.72	43.00	2840
185	1.60/1.10	0.50	2.60	46.80	2900	4x0.80	1.88	48.00	3430
240	1.70/1.20	0.60	2.80	52.50	3630	4x0.80	2.04	53.00	4320
300	1.80/1.40	0.60	3.00	57.50	4400	4x0.80	2.20	58.00	5150
400	2.00/1.20	0.70	3.40	65.80	5625	4x0.80	2.52	67.00	6550
500	2.20/1.70	0.70	3.60	73.00	7000	4x0.80	2.68	73.50	8000
630	2.40/1.80	0.70	4.00	82.50	8950	4x0.80	3.00	83.00	9970



AERIAL BUNCHED CABLES

1.1KV grade stranded 6 compacted aluminium phase conductor and stranded messenger conductor with all aluminium alloy, phase conductor is insulated with XLPE compound, messenger is either insulated or bare with lighting conductor of 16mm² refereed specification IS: 14255-1995 up to the latest amendment.

Deserption & type of cable	No. of wires		Thickness of XLPE insulation		App. Overall dia	App. Weight of cable	Breaking load of messenger	Max. D.C. resistance		A.C. current rating Amps.
	Phase	Messenger	Phase	Messenger				ohms/km		
								mm	mm	
With insulated messenger conductor										
3C x 16 mm ² + 25 mm ² (insulated) + 16 mm ²	7	7	1.2	1.2	23.5	369	7	1.91	1.38	62
3C x 25 mm ² + 25 mm ² (insulated) + 16 mm ²	7	7	1.2	1.2	25	457	7	1.2	1.38	82
3C x 35 mm ² + 25 mm ² (insulated) + 16 mm ²	7	7	1.2	1.2	27.5	554	7	0.868	1.38	103
3C x 35 mm ² + 35 mm ² (insulated) + 16 mm ²	7	7	1.2	1.2	28.4	586	9.8	0.868	0.986	103
3C x 50 mm ² + 35 mm ² (insulated) + 16 mm ²	7	7	1.5	1.2	32.5	760	9.8	0.641	0.986	127
3C x 70 mm ² + 50 mm ² (insulated) + 16 mm ²	19	7	1.5	1.5	37.5	1007	14	0.443	0.689	154
3C x 70 mm ² + 70 mm ² (insulated) + 16 mm ²	19	7	1.5	1.5	39.5	1070	19.7	0.443	0.492	154
3C x 95 mm ² + 70 mm ² (insulated) + 16 mm ²	19	7	1.5	1.5	42.5	1304	19.7	0.32	0.492	188
Deserption & type of cable	No. of wires		Thickness of XLPE insulation		App. Overall dia	App. Weight of cable	Breaking load of messenger	Max. D.C. resistance		A.C. current rating Amps.
	Phase	Messenger	Phase	Messenger				ohms/km		
								mm	mm	
1C x 16 mm ² + 25 mm ² (bare)	7	7	1.2	NA*	18.5	137	7	1.91	1.38	72
3C x 16 mm ² + 25 mm ² (bare)	7	7	1.2	NA*	19.3	272	7	1.91	1.38	64
1C x 25 mm ² + 25 mm ² (bare)	7	7	1.2	NA*	19.5	167	7	1.20	1.38	99
3C x 25 mm ² + 25 mm ² (bare)	7	7	1.2	NA*	20.5	362	7	1.20	1.38	84
1C x 35 mm ² + 25 mm ² (bare)	7	7	1.2	NA*	22	199	7	0.868	1.38	120
3C x 35 mm ² + 25 mm ² (bare)	7	7	1.2	NA*	23.5	458	7	0.868	1.38	105
1C x 50 mm ² + 35 mm ² (bare)	7	7	1.5	NA*	26.6	284	10.1	0.641	0.986	150
3C x 50 mm ² + 35 mm ² (bare)	7	7	1.5	NA*	26.8	659	10.1	0.641	0.986	130
3C x 70 mm ² + 50 mm ² (bare)	19	7	1.5	NA*	31.2	890	14	0.443	0.689	155
3C x 95 mm ² + 70 mm ² (bare)	19	7	1.5	NA*	36	1179	19.7	0.320	0.492	190

Rating factor for variation in air temperature:

Air Temperature °C	20	25	30	35	40	49	50
Rating Factor	1.32	1.25	1.16	1.09	1	0.9	0.81

*Not Applicable

HANDLING, STORAGE & LAYING OF CABLES

A. CABLE INSPECTION

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

1. A reel is 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 drums 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 Do's and Don'ts that should be followed while handling and storing the cables before it is put to use.

DO'S



When off loading reels from a truck, lower reels carefully using a hydraulic gate, hoist or forklift truck.



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



Cable reels should be stored on hard surfaces resting on the flanges edge (flanges vertical). Align reels flange to flange and, if possible, arrange so that first in is first out.



When using a hoist, install a manacle through the reel arbor holes and attach a sling. Use a spreader bar approximately 6 inches longer than the overall reel width placed between the sling ends just above the reel flanges,

DON'TS



Never drop reels. If reels must be rolled, roll in opposite direction of the cable wraps to keep cable from loosening on the reel.



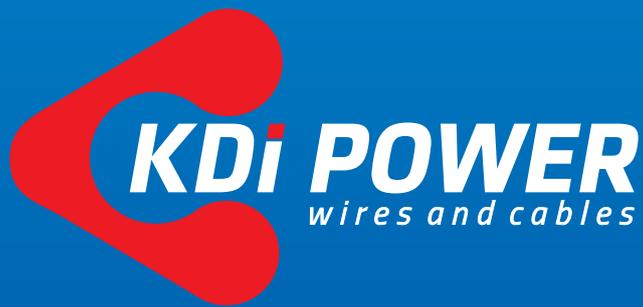
Do not allow the lift forks to contact the cable. Care must be taken by the fork lift operator not to make sudden turns or stops.



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. creating an enormous load on the bottom reels. Also, damage to the reel and/ 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.



This may lead to the bending of the reel flanges and mashing the cable.



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KDi POWER PRIVATE LIMITED

CIN: U36999DL2018PTC336933

Office: 912, 9th Floor, D Mall, Netaji Subhash Place, Pitampura, Delhi 110034 Tel: +91 11-47083188

Plant: H-1243, Narela Industrial Area, DSIDC, Narela, Delhi-110040 Tel: 011-42547243

kdipowercables@gmail.com, info@kdipower.com | www.kdipower.com