

LT POWER CABLES



PVC/ XLPE insulation for Power Transmission upto 1100 Volts (U₀/ U)

ISI marking IS: 1554 (Part I), with or without Heat Resistant (HR) or Fire Retardant Low Smoke (FRLS) properties

Screening can be provided if desired

Conforms to standard specifications such as IS: 1554 (Part I), IEC 502, BS 6436/ 87

Configuration

Single core cables > 1000 sq mm

Multi-core cables > 630 sq mm.

Conductor

Aluminium or Copper

Solid or Stranded

Circular

Compacted

Sector-shaped.

Insulation

PVC or XLPE, Heat Resistant PVC are also available.

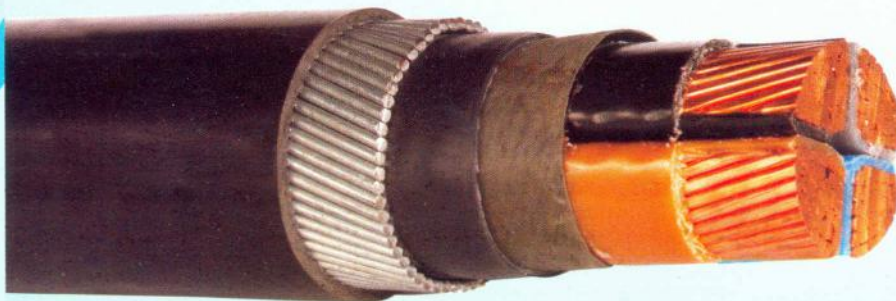
Mechanical Protection

Galvanized steel wire, strips or double helical steel tape

Aluminium wire armour for single-core cables

Inner and Outer Sheath

Black PVC or any colour as per customer's requirement.





**PARAMOUNT - 1 CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, PVC SHEATHED,
UNARMoured (AYY)/ ARMoured (AYWY) CABLE - 650/ 1100 VOLTS AS PER IS : 1554 (Pt - I) / 88**

Nominal cross Sectional Area Sq. mm	UNARMOURED			ARMOURED				Max. D.C. Conductor Resistance at 20°C Ohm/Km.	A.C. Current Rating (Amps.)							
	Nominal Thickness of PVC Insulation mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km	Nominal Thickness of PVC Insulation mm	Nominal Diameter of Alumi- nium wire mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km.		In Air				In Ground			
									GPPVC Insulation 2 Cables	HRPVC Insulation 3 Cables	GPPVC Insulation 2 Cables	HRPVC Insulation 3 Cables	GPPVC Insulation 2 Cables	HRPVC Insulation 3 Cables		
1.5	0.8	6.7	68	1.1	1.4	10.0	108	18.100	18	15	21	18	21	17	24	20
2.5	0.9	7.4	70	1.2	1.4	10.8	115	12.100	25	21	30	26	28	24	33	28
4.0	1.0	8.2	81	1.3	1.4	11.5	126	7.4100	32	27	38	33	36	31	41	35
6.0	1.0	8.8	90	1.3	1.4	12.2	164	4.6100	41	35	50	42	44	39	52	46
10	1.0	9.7	115	1.3	1.4	13.0	197	3.0800	56	47	69	57	59	51	69	60
16	1.0	10.7	155	1.3	1.4	14.1	238	1.9100	72	64	88	78	75	66	88	77
25	1.2	12.3	195	1.5	1.4	16.0	295	1.200	99	84	121	103	97	86	112	101
35	1.2	14.1	270	1.5	1.4	17.2	375	0.8680	120	105	146	129	120	100	140	117
50	1.4	15.0	334	1.7	1.4	18.7	466	0.6410	150	130	184	158	145	120	170	140
70	1.4	16.7	427	1.7	1.4	20.9	608	0.4430	185	155	226	190	170	140	199	163
95	1.6	19.0	546	1.9	1.6	23.0	732	0.3200	215	190	264	233	205	175	240	205
120	1.6	20.8	643	1.9	1.6	25.0	844	0.2530	240	220	292	270	230	195	268	228
150	1.8	23.0	760	2.1	1.6	26.2	979	0.2060	270	250	330	305	265	220	310	258
185	2.0	25.0	950	2.3	1.6	28.5	1151	0.1640	305	290	374	356	300	240	351	278
240	2.2	28.0	1150	2.5	1.6	31.9	1429	0.1250	350	335	430	410	335	270	392	316
300	2.4	32.0	1420	2.7	2.0	35.5	1784	0.1000	395	380	484	464	370	295	434	345
400	2.6	35.5	1731	3.0	2.0	40.0	2226	0.0778	455	435	557	534	410	325	480	378
500	3.0	39.0	2200	3.4	2.0	43.0	2671	0.0605	490	480	600	589	435	345	510	403
630	3.4	45.0	2850	3.5	2.0	49.0	3337	0.0469	560	550	680	674	485	390	565	456
800	3.4	48.5	3450	3.9	2.0	52.8	4210	0.0367	640	630	774	785	530	440	620	515
1000	3.4	55.0	4150	3.9	2.0	58.0	5024	0.0291	740	720	895	800	580	490	680	570

Technical Data of Cables with copper conductor can be supplied on request.

**PARAMOUNT - 2 CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, PVC SHEATHED,
UNARMoured (AYY)/ ARMoured (AYWY & AYFY) CABLE - 650/ 1100 VOLTS AS PER IS : 1554 (Pt - I) / 88**

Nominal cross Sectional Area Sq. mm	Nominal Thickness of PVC Insulation mm	UNARMoured		ARMoured				Max. D.C. Conductor Resistance at 20°C Ohm/Km.	A.C. Current Rating (Amps.)			
		Approx. Overall Diameter mm	Approx. Weight Kg/Km	Nominal Steel Armour Size mm		Approx. Overall Diameter mm	Approx. Weight Kg/Km.		In Air		In Ground	
				GPPVC Insulation Amps.	HRPVC Insulation Amps.				GPPVC Insulation Amps.	HRPVC Insulation Amps.		
1.5	0.8	11.5	175	1.4	-	14.5	435	18.100	16	20	18	21
2.5	0.9	13.0	210	1.4	-	16.0	500	12.100	21	26	25	29
4.0	1.0	14.5	270	1.4	-	17.5	600	7.4100	27	33	32	36
6.0	1.0	16.0	310	1.4	-	18.5	650	4.6100	35	42	40	47
10	1.0	18.1	400	1.4	-	20.9	720	3.0800	47	57	55	64
16	1.0	19.0	470	-	4 x 0.8	21.0	840	1.9100	59	72	70	82
25	1.2	20.0	498	-	4 x 0.8	22.0	770	1.2000	78	95	90	105
35	1.2	21.5	590	-	4 x 0.8	23.0	910	0.8680	99	120	110	128
50	1.4	24.0	730	-	4 x 0.8	25.6	1100	0.6410	125	153	135	158
70	1.4	26.5	880	-	4 x 0.8	28.0	1345	0.4430	150	183	160	187
95	1.6	29.0	1190	-	4 x 0.8	30.6	1685	0.3200	185	225	190	222
120	1.6	31.9	1350	-	4 x 0.8	33.5	1890	0.2530	210	256	210	245
150	1.8	35.0	1650	-	4 x 0.8	36.0	2265	0.2060	240	294	240	280
185	2.0	37.3	1950	-	4 x 0.8	39.8	2685	0.1640	275	337	275	322
240	2.2	43.7	2500	-	4 x 0.8	45.7	3400	0.1250	325	397	320	374
300	2.4	45.8	3100	-	4 x 0.8	47.6	4430	0.1000	365	445	355	416
400	2.6	51.0	4000	-	4 x 0.8	52.5	4950	0.0778	420	515	385	450

Cables with conductor area upto 10 Sq. mm can be substituted with copper conductor of one size lower.



**PARAMOUNT - 3 CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, PVC SHEATHED,
UNARMoured (AYY) / ARMoured (AYWY & AYFY) CABLE - 650/ 1100 VOLTS AS PER IS : 1554 (Pt - I) / 88**

Nominal cross Sectional Area Sq. mm	Nominal Thickness of PVC Insulation mm	UNARMoured		ARMoured				Max. D.C. Conductor Resistance at 20°C Ohm/Km.	A.C. Current Rating (Amps.)			
		Approx. Overall Diameter mm	Approx. Weight Kg/Km	Nominal Steel Armour Size mm		Approx. Overall Diameter mm	Approx. Weight Kg/Km.		In Air		In Ground	
				W	F				GPPVC Insulation Amps.	HRPVC Insulation Amps.	GPPVC Insulation Amps.	HRPVC Insulation Amps.
1.5	0.8	11.5	200	1.4	-	14.5	485	18.100	13	16	16	18
2.5	0.9	13.5	240	1.4	-	16.0	560	12.100	18	22	21	24
4.0	1.0	15.4	290	1.4	-	17.5	610	7.4100	23	28	28	32
6.0	1.0	16.5	338	1.4	-	19.0	690	4.6100	30	38	35	41
10	1.0	18.5	420	1.4	-	22.5	850	3.0800	40	49	46	54
16	1.0	21.2	560	-	4 x 0.8	23.0	970	1.9100	51	63	60	69
25	1.2	22.0	620	-	4 x 0.8	23.5	1050	1.2000	70	86	76	89
35	1.2	24.0	770	-	4 x 0.8	25.5	1145	0.8680	86	105	92	108
50	1.4	27.5	970	-	4 x 0.8	29.0	1450	0.6410	105	127	110	129
70	1.4	30.5	1270	-	4 x 0.8	31.5	1700	0.4430	130	159	135	157
95	1.6	34.5	1640	-	4 x 0.8	36.0	2200	0.3200	155	190	165	193
120	1.6	37.0	1865	-	4 x 0.8	38.5	2490	0.2530	180	218	185	215
150	1.8	40.8	2370	-	4 x 0.8	42.8	3080	0.2060	205	251	210	246
185	2.0	45.2	2875	-	4 x 0.8	46.8	3615	0.1640	240	294	235	276
240	2.2	50.6	3820	-	4 x 0.8	52.5	4550	0.1250	280	340	275	322
300	2.4	58.5	4635	-	4 x 0.8	59.5	5500	0.1000	315	386	305	358
400	2.6	63.3	5600	-	4 x 0.8	65.0	6700	0.0778	375	445	335	390

Cables with conductor area upto 10 Sq. mm can be substituted with copper conductor of one size lower.

**PARAMOUNT - 3½ CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, PVC SHEATHED,
UNARMoured (AYY)/ ARMoured (AYWY & AYFY) CABLE - 650/ 1100 VOLTS AS PER IS : 1554 (Pt - I) / 88**

Nominal cross Sectional Area Sq. mm	Nominal Thickness of PVC Insulation mm	UNARMOURED		ARMOURED			Max. D.C. Conductor Resistance at 20°C Ohm/Km.	A.C. Current Rating (Amps.)			
		Approx. Overall Diameter mm	Approx. Weight Kg/Km	Nominal Steel Armour Size mm	Approx. Overall Diameter mm	Approx. Weight Kg/Km.		In Air		In Ground	
								GPPVC Insulation Amps.	HRPVC Insulation Amps.	GPPVC Insulation Amps.	HRPVC Insulation Amps.
25/16	1.2/1.0	25.0	760	4x0.8	26.0	1170	1.2000	70	86	76	89
35/16	1.2/1.0	27.0	880	4x0.8	28.0	1300	0.8680	86	105	92	108
50/25	1.4/1.2	30.0	1145	4x0.8	31.6	1660	0.6410	105	127	110	129
70/35	1.4/1.2	34.5	1470	4x0.8	36.0	2020	0.4430	130	159	135	157
95/50	1.6/1.4	38.5	1890	4x0.8	40.0	2520	0.3200	155	190	165	193
120/70	1.6/1.4	42.0	2300	4x0.8	43.0	2990	0.2530	180	218	185	215
150/70	1.8/1.4	46.0	2710	4x0.8	47.0	3515	0.2060	205	251	210	246
185/95	2.0/1.6	50.2	3210	4x0.8	52.0	4170	0.1640	240	294	235	276
240/120	2.2/1.6	56.5	4230	4x0.8	58.0	5275	0.1250	280	340	275	322
300/150	2.4/1.8	62.5	5385	4x0.8	64.0	6300	0.1000	315	386	305	358
400/185	2.6/2.0	69.5	6650	4x0.8	71.5	7800	0.0778	375	445	335	390

Cables with conductor area upto 10 Sq. mm can be substituted with copper conductor of one size lower.

**PARAMOUNT - 4 CORE, ALUMINIUM CONDUCTOR, PVC INSULATED, PVC SHEATHED,
UNARMoured (AYY) / ARMoured (AYWY & AYFY) CABLE - 650/ 1100 VOLTS AS PER IS : 1554 (Pt - I) / 88**

Nominal cross Sectional Area Sq. mm	Nominal Thickness of PVC Insulation mm	UNARMoured		ARMoured				Max. D.C. Conductor Resistance at 20°C Ohm/Km.	A.C. Current Rating (Amps.)			
		Approx. Overall Diameter mm	Approx. Overall Weight Kg/Km	Nominal Steel Armour Size mm		Approx. Overall Diameter mm	Approx. Weight Kg/Km.		In Air		In Ground	
				GPPVC Insulation Amps.	HRPVC Insulation Amps.				GPPVC Insulation Amps.	HRPVC Insulation Amps.		
2.5	0.9	14.0	230	1.4	-	17.0	560	12.100	18	22	21	24
4.0	1.0	16.6	320	1.4	-	19.0	700	7.4100	23	28	28	32
6.0	1.0	18.0	350	1.4	-	20.5	800	4.6100	30	38	35	41
10	1.0	20.0	450	-	4 x 0.8	21.0	810	3.0800	40	49	46	54
16	1.0	23.0	650	-	4 x 0.8	23.5	1000	1.9100	51	63	60	69
25	1.2	25.5	765	-	4 x 0.8	26.0	1210	1.2000	70	86	76	89
35	1.2	28.0	930	-	4 x 0.8	28.5	1420	0.8680	86	105	92	108
50	1.4	32.9	1250	-	4 x 0.8	34.0	1800	0.6410	105	127	110	129
70	1.4	36.4	1600	-	4 x 0.8	37.5	2220	0.4430	130	159	135	157
95	1.6	41.3	2180	-	4 x 0.8	42.5	2830	0.3200	155	190	165	193
120	1.6	44.8	2560	-	4 x 0.8	45.0	3250	0.2530	180	218	185	215
150	1.8	49.7	3120	-	4 x 0.8	51.0	3920	0.2060	205	251	210	246
185	2.0	54.6	3700	-	4 x 0.8	56.2	4550	0.1640	240	294	235	276
240	2.2	61.0	4760	-	4 x 0.8	63.0	5930	0.1250	280	340	275	322
300	2.4	67.0	5900	-	4 x 0.8	68.5	6970	0.1000	315	386	305	358
400	2.6	76.2	7425	-	4 x 0.8	78.0	8800	0.0778	375	445	335	390

Cables with conductor area upto 10 Sq. mm can be substituted with copper conductor of one size lower.

Paramount Communications Limited

ISO 9001 & 14001 Certified

Corporate Office

Paramount House

C-125 Naraina Industrial Area Phase-I, New Delhi-110 028, India

t: +91 11 45618900 f: +91 11 25893719-20

e: pcl@paramountcables.com

Mumbai

201 Royal Plaza, New Link Road, Andheri (West), Mumbai-110 053

t: +91 22 26398408 f: +91 22 26390168 e: mumbai@paramountcables.com

Europe

AEI Cables Limited

Birtley, Chester-le-Street, Co. Durham, DH3 2RA, United Kingdom

t: 0191 410 3111 f: 0191 410 8312

e: info@aEICables.co.uk w: www.aEICables.co.uk

www.paramountcables.com

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