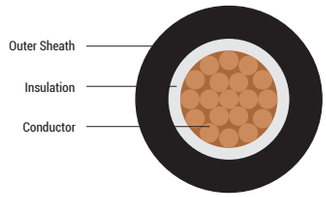
SECTION - XI

POWER CABLES

PRODUCTS

AYY/YY-1 CORE

REACH I RoHS



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
1 cores AL / CU conductor, PVC insulated, unarmoured cables as per IS 1554 Part - 1.
Conductor : AL up to 10 Sq. mm conductor are solid Cl.1 as per IS 8130. And above 10 Sq. mm conductor are stranded round or compact Cl. 2 as per IS 8130
In CU 4 & 6 Sq. mm conductor are solid Cl.1 or stranded Cl. 2 as per IS 8130. 10 Sq. mm & above stranded round or stranded compact Cl. 2 as per IS 8130
Insulation : PVC Type - A, as per IS 5831. (Option : HR PVC Type - C, as per IS 5831)
Core Color : Red or yellow or blue or black or natural
Outer Sheath : PVC Type ST-1 as per IS 5831. (Option : PVC Type - ST 2 as per IS 5831 / FR Type / FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

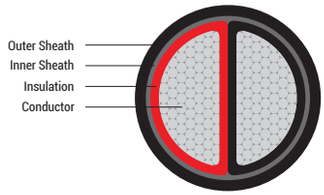
While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Insulation Type - PVC Type A / C.
Sheath Type - PVC Type ST-1 / FR / FRLS; PVC Type ST-2 / FR / FRLS.
Colour from above technical details.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Minimum No. of Strands in Conductor		Nominal Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Net Wt. of Cable (Kg / Km)	
		AL	CU				AL Cable AYY	CU Cable YY
110100100016	16	6	6	1.0	1.8	11	160	260
110100100025	25	6	6	1.2	1.8	13	210	365
110100100035	35	6	6	1.2	1.8	14	250	460
110100100050	50	6	6	1.4	1.8	16	300	610
110100100070	70	12	12	1.4	1.8	17	400	830
110100100095	95	15	15	1.6	1.8	19	500	1100
110100100120	120	15	18	1.6	2.0	21	600	1350
110100100150	150	15	18	1.8	2.0	23	750	1680
110100100185	185	30	30	2.0	2.0	25	900	2050
110100100240	240	30	34	2.2	2.0	28	1100	2600
110100100300	300	30	34	2.4	2.0	30	1350	3200
110100100400	400	53	53	2.6	2.2	35	1700	4200
110100100500	500	53	53	3.0	2.2	38	2150	5250
110100100630	630	53	53	3.4	2.4	43	2750	6650
110100100800	800	53	53	3.4	2.4	48	3300	8250
110100101000	1000	53	53	3.4	2.6	52	4100	10300

Electrical Parameters

Part Number	Nominal Cross Sectional Area (Sq. mm)	Max. DC Conductor Resistance at 20°C (Ω/km)		Max. AC Conductor Resistance at 70°C (Ω/km)		Approx. Reactance at 50 Hz (Ω/km)	Approx. Capacitance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Rating for 1sec. Duration (K.Amps)	
								With AL Cond.			With CU Cond.				
		AL	CU	AL	CU			Ground	Duct	Air	Ground	Duct	Air	AL	CU
110100100016	16	1.91	1.15	2.29	1.38	0.11	1.01	66	65	64	85	83	82	1.22	1.84
110100100025	25	1.2	0.727	1.44	0.87	0.105	1.05	86	84	84	110	110	110	1.9	2.88
110100100035	35	0.868	0.524	1.04	0.63	0.1	1.22	100	100	105	130	125	130	2.66	4.03
110100100050	50	0.641	0.387	0.769	0.464	0.098	1.22	120	115	130	155	150	165	3.8	5.75
110100100070	70	0.443	0.268	0.532	0.322	0.091	1.43	140	135	155	190	175	205	5.32	8.05
110100100095	95	0.32	0.193	0.384	0.232	0.088	1.47	175	155	190	220	200	245	7.22	10.9
110100100120	120	0.253	0.153	0.304	0.184	0.086	1.62	195	170	220	250	220	280	9.12	13.8
110100100150	150	0.206	0.124	0.247	0.1488	0.085	1.62	220	190	250	280	245	320	11.14	17.3
110100100185	185	0.164	0.0991	0.197	0.1189	0.084	1.62	240	210	290	305	260	370	14.1	21.3
110100100240	240	0.125	0.0754	0.151	0.0912	0.082	1.72	270	225	335	345	285	425	18.2	27.3
110100100300	300	0.1	0.0601	0.122	0.0733	0.08	1.74	295	245	380	375	310	475	22.8	34.5
110100100400	400	0.0778	0.047	0.0961	0.058	0.08	1.81	325	275	435	400	335	550	30.4	46
110100100500	500	0.0605	0.0366	0.0759	0.0459	0.079	1.86	345	295	480	425	355	590	38	57.5
110100100630	630	0.0469	0.0283	0.061	0.0368	0.077	1.87	390	320	550	470	375	660	47.9	72.5
110100100800	800	0.0367	0.0221	0.0503	0.0303	0.077	1.98	450	380	610	530	425	725	60.8	92
110100101000	1000	0.0291	0.0176	0.0422	0.0255	0.076	2.2	500	415	680	590	740	870	76	115

AYY/YY-2 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
2 cores AL / CU conductor, PVC insulated, unarmoured cables as per IS 1554 Part - 1.
Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded round or compact round or Compact shape conductor Cl. 2 as per IS 8130
In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded round Cl. 2 as per IS 8130. 10 Sq. mm conductor is stranded round or stranded compact conductor Cl. 2 as per IS 8130
Above 10 Sq. mm conductor are stranded round or compact round or compacted shaped Cl. 2 as per IS 8130
Insulation : PVC Type - A, as per IS 5831.(Option : HR PVC Type - C, as per IS 5831)
Core Color : Red, black
Inner Sheath : PVC / PVC tape as per IS 1554 (P - 1)
Outer Sheath : PVC Type ST - 1 as per IS 5831 (Option : PVC Type - ST - 2 as per IS 5831 / FR Type / FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

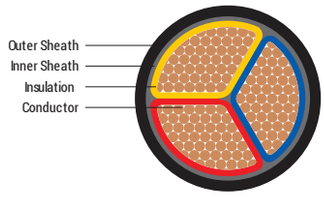
While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Insulation Type - PVC Type A / C.
Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR / FRLS.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Minimum No. of Strands in Conductor		Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Nominal Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Net Wt. of Cable (Kg / Km)	
		AL	CU					AL Cable AYY	CU Cable YY
110200200004	4	_	1/7	1.0	0.3	1.8	14	240	290
110200200006	6	1	1/7	1.0	0.3	1.8	17	300	370
110200200010	10	1	6.0	1.0	0.3	1.8	18	400	520
110200200016	16	6	6.0	1.0	0.3	1.8	17	430	630
110200200025	25	6	6.0	1.2	0.3	2.0	19	450	750
110200200035	35	6	6.0	1.2	0.3	2.0	21	550	980
110200200050	50	6	6.0	1.4	0.3	2.0	24	700	1300
110200200070	70	12	12.0	1.4	0.3	2.0	26	850	1700
110200200095	95	15	15.0	1.6	0.4	2.2	30	1150	2300
110200200120	120	15	18.0	1.6	0.4	2.2	32	1300	2800
110200200150	150	15	18.0	1.8	0.4	2.4	34	1600	3450
110200200185	185	30	30.0	2.0	0.5	2.4	38	2000	4300
110200200240	240	30	34.0	2.2	0.5	2.6	42	2500	5500
110200200300	300	30	34.0	2.4	0.6	2.8	46	3000	6700
110200200400	400	53	53.0	2.6	0.7	3.2	52	3800	8750
110200200500	500	53	53.0	3.0	0.7	3.4	54	4800	11000
110200200630	630	53	53.0	3.4	0.7	3.8	65	6000	13800

Electrical Parameters

Part Number	Nominal Cross Sectional Area (Sq. mm)	Max. DC Conductor Resistance at 20°C (Ω/km)		Max. AC Conductor Resistance at 70°C (Ω/km)		Approx. Reactance at 50 Hz (Ω/km)	Approx. Capacitance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Rating for 1sec. Duration (K.Amps)	
								With AL Cond.			With CU Cond.				
		AL	CU	AL	CU			Ground	Duct	Air	Ground	Duct	Air	AL	CU
110200200004	4	_	4.61	_	5.53	0.098	0.23	34	28	30	44	37	39	0.304	0.46
110200200006	6	4.61	3.08	5.53	3.7	0.096	0.28	43	37	40	55	47	50	0.456	0.69
110200200010	10	3.08	1.83	3.7	2.2	0.091	0.34	57	48	53	74	61	67	0.76	1.15
110200200016	16	1.91	1.15	2.29	1.38	0.085	0.4	78	61	70	94	78	85	1.22	1.84
110200200025	25	1.2	0.727	1.44	0.87	0.083	0.42	95	80	99	120	100	125	1.9	2.88
110200200035	35	0.868	0.524	1.04	0.63	0.082	0.48	116	94	117	145	120	155	2.66	4.03
110200200050	50	0.641	0.387	0.769	0.464	0.082	0.49	140	110	140	170	145	190	3.8	5.75
110200200070	70	0.443	0.268	0.532	0.322	0.076	0.56	170	140	176	210	175	235	5.32	8.05
110200200095	95	0.32	0.193	0.384	0.232	0.076	0.58	200	165	221	250	210	290	7.22	10.9
110200200120	120	0.253	0.153	0.304	0.184	0.075	0.63	225	185	258	285	240	330	9.12	13.8
110200200150	150	0.206	0.124	0.247	0.1488	0.074	0.63	255	210	294	315	270	375	11.4	17.3
110200200185	185	0.164	0.0991	0.197	0.1189	0.074	0.64	285	235	339	355	300	435	14.1	21.28
110200200240	240	0.125	0.0754	0.151	0.0912	0.073	0.67	325	270	402	410	350	510	18.2	27.6
110200200300	300	0.1	0.0601	0.122	0.0733	0.073	0.68	370	305	461	460	390	590	22.8	34.5
110200200400	400	0.0778	0.047	0.0961	0.058	0.072	0.7	435	350	542	520	440	670	30.4	46
110200200500	500	0.0605	0.0366	0.0759	0.0459	0.072	0.7	481	405	624	580	480	750	38	57.5
110200200630	630	0.0469	0.0283	0.061	0.0368	0.072	0.7	537	470	723	680	575	875	47.9	72.55

AYY/YY-3 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
3 cores AL / CU conductor, PVC insulated, unarmoured cables as per IS 1554 Part - 1.
Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded compacted shape Cl. 2 as per IS 8130
In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded Cl. 2 as per IS 8130. 10 Sq. mm conductor is stranded Cl. 2 round as per IS 8130.
Above 10 Sq. mm conductor are stranded compacted shaped Cl. 2 as per IS 8130
Insulation : PVC Type - A, as per IS 5831.(Option : HR PVC Type - C, as per IS 5831)
Core Color : Red, yellow, blue
Inner Sheath : PVC / PVC tape as per IS 1554 (P - 1)
Outer Sheath : PVC Type ST - 1 as per IS 5831 (Option : PVC Type - ST - 2 as per IS 5831, FR Type / FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

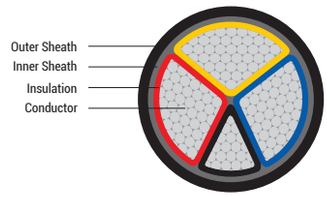
While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Insulation Type - PVC Type A / C.
Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR / FRLS.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Minimum No. of Strands in Conductor		Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Nominal Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Net Wt. of Cable (Kg / Km)	
		AL	CU					AL Cable AYY	CU Cable YY
110300300004	4	_	1/7	1.0	0.3	1.8	16	280	330
110300300006	6	1	1/7	1.0	0.3	1.8	18	350	460
110300300010	10	1	6	1.0	0.3	1.8	19	430	640
110300300016	16	6	6	1.0	0.3	1.8	19	450	720
110300300025	25	6	6	1.2	0.3	2.0	22	610	1070
110300300035	35	6	6	1.2	0.3	2.0	24	730	1390
110300300050	50	6	6	1.4	0.3	2.0	27	930	1860
110300300070	70	12	12	1.4	0.4	2.2	30	1190	2490
110300300095	95	15	15	1.6	0.4	2.2	34	1590	3340
110300300120	120	15	18	1.6	0.4	2.2	37	1890	4090
110300300150	150	15	18	1.8	0.5	2.4	40	2290	5090
110300300185	185	30	30	2.0	0.5	2.6	44	2740	6190
110300300240	240	30	34	2.2	0.6	2.8	50	3490	7940
110300300300	300	30	34	2.4	0.6	3.0	55	4290	9890
110300300400	400	53	53	2.6	0.7	3.4	62	5430	12790
110300300500	500	53	53	3.0	0.7	3.6	69	6900	16190
110300300630	630	53	53	3.4	0.7	4.0	77	8690	20390

Electrical Parameters

Part Number	Nominal Cross Sectional Area (Sq. mm)	Max. DC Conductor Resistance at 20°C (Ω/km)		Max. AC Conductor Resistance at 70°C (Ω/km)		Approx. Reactance at 50 Hz (Ω/km)	Approx. Capacitance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Rating for 1sec. Duration (K.Amps)	
								With AL Cond.			With CU Cond.				
		AL	CU	AL	CU			Ground	Duct	Air	Ground	Duct	Air	AL	CU
110200200004	4	_	4.61	_	5.53	0.098	0.23	28	23	23	36	30	30	0.304	0.46
110200200006	6	4.61	3.08	5.53	3.7	0.096	0.28	35	30	30	45	38	39	0.456	0.69
110200200010	10	3.08	1.83	3.7	2.2	0.091	0.34	46	39	40	60	50	52	0.76	1.15
110200200016	16	1.91	1.15	2.29	1.38	0.085	0.4	60	50	51	77	64	66	1.22	1.84
110200200025	25	1.2	0.727	1.44	0.87	0.083	0.42	76	63	70	99	81	90	1.9	2.88
110200200035	35	0.868	0.524	1.04	0.63	0.082	0.48	92	77	86	120	99	110	2.66	4.03
110200200050	50	0.641	0.387	0.769	0.464	0.082	0.49	110	95	105	145	125	135	3.8	5.75
110200200070	70	0.443	0.268	0.532	0.322	0.076	0.56	135	115	130	175	150	165	5.32	8.05
110200200095	95	0.32	0.193	0.384	0.232	0.076	0.58	165	140	155	210	175	200	7.22	10.9
110200200120	120	0.253	0.153	0.304	0.184	0.075	0.63	185	155	180	240	195	230	9.12	13.8
110200200150	150	0.206	0.124	0.247	0.1488	0.074	0.63	210	175	205	270	225	265	11.4	17.3
110200200185	185	0.164	0.0991	0.197	0.1189	0.074	0.64	235	200	240	300	255	305	14.1	21.3
110200200240	240	0.125	0.0754	0.151	0.0912	0.073	0.67	275	235	280	345	295	355	18.2	27.6
110200200300	300	0.1	0.0601	0.122	0.0733	0.073	0.68	305	260	315	385	335	400	22.8	34.5
110200200400	400	0.0778	0.047	0.0961	0.058	0.072	0.7	335	290	375	425	360	435	30.4	46
110200200500	500	0.0605	0.0366	0.0759	0.0459	0.072	0.7	370	320	425	470	390	520	38	57.5
110200200630	630	0.0469	0.0283	0.061	0.0368	0.072	0.7	405	350	480	555	470	675	47.9	72.5

AYY/YY-3.5 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
3.5 cores AL / CU conductor, PVC insulated, unarmoured cables as per IS 1554 Part-1.
Conductor : AL / CU stranded compact shaped conductor as per Cl. 2, IS 8130
Insulation : PVC Type - A as per IS 5831. (Option : HR PVC Type - C, as per IS 5831)
Phase Core Color : Red, yellow, blue
Neutral Core Color : Black
Inner Sheath : PVC / PVC tape as per IS 1554 (P - 1)
Outer Sheath : PVC Type ST - 1 as per IS 5831 (Option : PVC Type ST - 2 as per IS 5831 / FR Type / FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

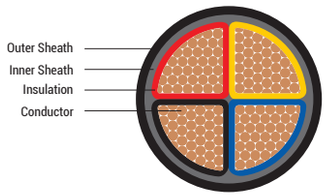
While ordering, in addition to the part number the following details shall also be advised :
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Insulation Type - PVC Type A / C.
Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR / FRLS.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Minimum No. of Strands in Conductor		Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Nominal Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Net Wt. of Cable (Kg / Km)	
		AL	CU					AL Cable AYY	CU Cable YY
110401010211	3 x 25 + 16	6/6	6/6	1.2/1.0	0.3	2.0	24	680	1250
110401020211	3 x 35 + 16	6/6	6/6	1.2/1.0	0.3	2.0	26	830	1585
110401030211	3 x 50 + 25	6/6	6/6	1.4/1.2	0.3	2.0	29	1030	2080
110401040211	3 x 70 + 35	12/6	12/6	1.4/1.2	0.4	2.2	32	1380	2880
110401050211	3 x 95 + 50	15/6	15/6	1.6/1.4	0.4	2.2	36	1785	3885
110401060211	3 x 120 + 70	15/12	18/12	1.6/1.4	0.5	2.4	40	2190	4830
110401070211	3 x 150 + 70	15/12	18/12	1.8/1.4	0.5	2.4	44	2580	5780
110401080211	3 x 185 + 95	30/15	30/15	2.0/1.6	0.5	2.6	48	3185	7180
110401090211	3 x 240 + 120	30/15	34/18	2.2/1.6	0.6	3.0	54	4085	9280
110401100211	3 x 300 + 150	30/15	34/18	2.4/1.8	0.6	3.2	62	4980	11480
110401110211	3 x 400 + 185	53/30	53/30	2.6/2.0	0.7	3.4	68	6280	14985
110401120211	3 x 500 + 240	53/30	53/34	3.0/2.2	0.7	3.8	77	7985	18480
110401130211	3 x 630 + 300	53/30	53/34	3.4/2.4	0.7	4.0	87	9980	23485

Electrical Parameters

Part Number	Size Cores x Sq. mm + Neutral (Sq. mm)	Max. DC Conductor Resistance at 20°C (Ω/km)		Max. AC Conductor Resistance at 70°C (Ω/km)		Approx. Reactance at 50 Hz (Ω/km)	Normal Current Rating (Amps)						Short Circuit Current Rating for 1sec. Duration (K.Amps)	
							With AL Cond.			With CU Cond.				
		AL	CU	AL	CU		Ground	Duct	Air	Ground	Duct	Air	AL	CU
110401010211	3 x 25 + 16	1.2	0.727	1.44	0.87	0.083	76	63	70	99	81	90	1.9	2.88
110401020211	3 x 35 + 16	0.868	0.524	1.04	0.63	0.082	92	77	86	120	99	110	2.66	4.03
110401030211	3 x 50 + 25	0.641	0.387	0.769	0.464	0.082	110	95	105	145	125	135	3.8	5.75
110401040211	3 x 70 + 35	0.443	0.268	0.532	0.3	0.076	135	115	130	175	150	165	5.32	8.05
110401050211	3 x 95 + 50	0.32	0.193	0.384	0.2	0.076	165	140	155	210	175	200	7.22	10.9
110401060211	3 x 120 + 70	0.253	0.153	0.304	0.2	0.075	185	155	180	240	195	230	9.12	13.8
110401070211	3 x 150 + 70	0.206	0.124	0.247	0.1	0.074	210	175	205	270	225	265	11.4	17.3
110401080211	3 x 185 + 95	0.164	0.0991	0.197	0.1	0.074	235	200	240	300	255	305	14.1	21.3
110401090211	3 x 240 + 120	0.125	0.0754	0.151	0.1	0.073	275	235	280	345	295	355	18.2	27.6
110401100211	3 x 300 + 150	0.1	0.0601	0.122	0.1	0.073	305	260	315	385	335	400	22.8	34.5
110401110211	3 x 400 + 185	0.0778	0.047	0.0961	0.1	0.072	335	290	375	425	360	435	30.4	46
110401120211	3 x 500 + 240	0.0605	0.0366	0.0759	0.5	0.072	370	320	425	470	390	520	38	57.5
110401130211	3 x 630 + 300	0.0469	0.0283	0.061	0.0	0.072	405	350	480	555	470	675	47.9	72.5

AYY/YY-4 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth

4 cores AL / CU conductor, PVC insulated, unarmoured cables as per IS 1554 Part - 1.

Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded compacted shape Cl. 2 as per IS 8130

In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded Cl. 2 as per IS 8130. 10 Sq. mm conductor is stranded Cl. 2 round as per IS 8130. Above 10 Sq. mm conductor are stranded compacted shaped Cl. 2 as per IS 8130

Insulation : PVC Type - A, as per IS 5831. (Option : HR PVC Type - C, as per IS 5831)

Core Color : Red, yellow, blue, black

Inner Sheath : PVC/PVC tape as per IS 1554 (P-1)

Outer Sheath : PVC Type ST - 1 as per IS 5831 (Option : PVC Type - ST - 2 as per IS 5831, FR Type / FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:

Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).

Insulation Type - PVC Type A / C.

Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR / FRLS.

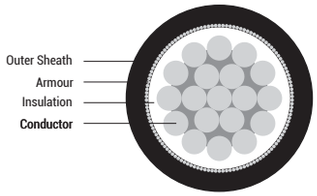
Part Number	Nominal Cross Sectional Area (Sq. mm)	Minimum No. of Strands in Conductor		Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Nominal Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Net Wt. of Cable (Kg / Km)	
		AL	CU					AL Cable AYY	CU Cable YY
110500400004	4	_	1/7	1.0	0.3	1.8	16	290	390
110500400006	6	1	1/7	1.0	0.3	1.8	18	380	530
110500400010	10	1	6	1.0	0.3	1.8	20	530	770
110500400016	16	6	6	1.0	0.3	2.0	23	550	940
110500400025	25	6	6	1.2	0.3	2.0	26	740	1350
110500400035	35	6	6	1.2	0.3	2.0	30	925	1785
110500400050	50	6	6	1.4	0.4	2.2	34	1230	2480
110500400070	70	12	12	1.4	0.4	2.2	38	1540	3285
110500400095	95	15	15	1.6	0.4	2.4	43	2030	4385
110500400120	120	15	18	1.6	0.5	2.4	46	2385	5360
110500400150	150	15	18	1.8	0.5	2.6	51	2925	6650
110500400185	185	30	30	2.0	0.6	2.8	55	3630	8230
110500400240	240	30	34	2.2	0.6	3.0	60	4580	10530
110500400300	300	30	34	2.4	0.7	3.4	66	5480	12950
110500400400	400	53	53	2.6	0.7	3.6	73	6780	16700
110500400500	500	53	53	3.0	0.7	4.0	82	8580	20980
110500400630	630	53	53	3.4	0.7	4.0	92	10980	25980

Electrical Parameters

Part Number	Nominal Cross Sectional Area (Sq. mm)	Max. DC Conductor Resistance at 20°C (Ω/km)		Max. AC Conductor Resistance at 70°C (Ω/km)		Approx. Reactance at 50 Hz (Ω/km)	Approx. Capacitance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Rating for 1sec. Duration (K.Amps)	
								With AL Cond.			With CU Cond.				
		AL	CU	AL	CU			Ground	Duct	Air	Ground	Duct	Air	AL	CU
110200200004	4	_	4.61	_	5.53	0.098	0.23	28	23	23	36	30	30	0.304	0.46
110200200006	6	4.61	3.08	5.53	3.7	0.096	0.28	35	30	30	45	38	39	0.456	0.69
110200200010	10	3.08	1.83	3.7	2.2	0.091	0.34	46	39	40	60	50	52	0.76	1.15
110200200016	16	1.91	1.15	2.29	1.38	0.085	0.4	60	50	51	77	64	66	1.22	1.84
110200200025	25	1.2	0.727	1.44	0.87	0.083	0.42	76	63	70	99	81	90	1.9	2.88
110200200035	35	0.868	0.524	1.04	0.63	0.082	0.48	92	77	86	120	99	110	2.66	4.03
110200200050	50	0.641	0.387	0.769	0.464	0.082	0.49	110	95	105	145	125	135	3.8	5.75
110200200070	70	0.443	0.268	0.532	0.322	0.076	0.56	135	115	130	175	150	165	5.32	8.05
110200200095	95	0.32	0.193	0.384	0.232	0.076	0.58	165	140	155	210	175	200	7.22	10.9
110200200120	120	0.253	0.153	0.304	0.184	0.075	0.63	185	155	180	240	195	230	9.12	13.8
110200200150	150	0.206	0.124	0.247	0.1488	0.074	0.63	210	175	205	270	225	265	11.4	17.3
110200200185	185	0.164	0.0991	0.197	0.1189	0.074	0.64	235	200	240	300	255	305	14.1	21.3
110200200240	240	0.125	0.0754	0.151	0.0912	0.073	0.67	275	235	280	345	295	355	18.2	27.6
110200200300	300	0.1	0.0601	0.122	0.0733	0.073	0.68	305	260	315	385	335	400	22.8	34.5
110200200400	400	0.0778	0.047	0.0961	0.058	0.072	0.7	335	290	375	425	360	435	30.4	46
110200200500	500	0.0605	0.0366	0.0759	0.0459	0.072	0.7	370	320	425	470	390	520	38	57.5
110200200630	630	0.0469	0.0283	0.061	0.0368	0.072	0.7	405	350	480	555	470	675	47.9	72.5

AYFaY/YFaY-AYWaY/YWaY

REACH I RoHS



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
1 cores AL / CU conductor, PVC insulated, aluminum steel strip / wire armoured cables as per IS 1554 Part - 1.
Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded round or compact Cl. 2 as per IS 8130
In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded Cl. 2 as per IS 8130. 10 Sq. mm & above stranded round or stranded compact Cl. 2 as per IS 8130
Insulation : PVC Type - A, as per IS 5831.(Option : HR PVC Type - C, as per IS 5831)
Core Color : Red or yellow or blue or black or natural
Armouring : Single armouring of aluminum wire or aluminum strip as per IS 1554 P - 1
Outer Sheath : PVC Type ST - 1 as per IS 5831 (Option : PVC Type ST - 2 as per IS 5831 / FR Type / FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

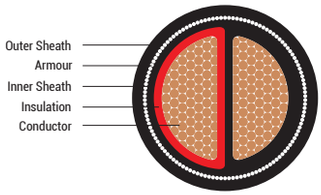
While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Insulation Type - PVC Type A / C.
Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR /FRLS.
Colour from above technical detail.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Minimum No. of Strands in Conductor		Nominal Thickness of Insulation (mm)	Armouring with Flat AL Strip (AYFaY/YFaY)					Armouring with Round Wire (AYWaY/YWaY)				
					Nominal Thick. of Arm. Strip (mm)	Minimum Thick. of Out. Sheath (mm)	Approx. Overall Dia. (mm)	Approx Net Wt of Cable (kg/km)		Nominal Diameter of Wire (mm)	Minimum Thick. of Out. Sheath (mm)	Approx. Overall Dia. (mm)	Approx Net Wt of Cable (kg/km)	
		AL	CU					AL Cable AYFaY	CU Cable YFaY				AL Cable AYWaY	CU Cable YWaY
110600100016	16	6	6	1.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	14	250	350
110600100025	25	6	6	1.5	N/A	N/A	N/A	N/A	N/A	1.4	1.24	15	300	450
110600100035	35	6	6	1.5	N/A	N/A	N/A	N/A	N/A	1.4	1.24	16	350	560
110600100050	50	6	6	1.7	N/A	N/A	N/A	N/A	N/A	1.4	1.24	18	450	750
110600100070	70	12	12	1.7	N/A	N/A	N/A	N/A	N/A	1.4	1.40	20	550	980
110600100095	95	15	15	1.9	0.8	1.40	21	650	1230	1.6	1.40	22	700	1300
110600100120	120	15	18	1.9	0.8	1.40	23	750	1500	1.6	1.40	24	800	1550
110600100150	150	15	18	2.1	0.8	1.40	24	900	1830	1.6	1.40	26	950	1880
110600100185	185	30	30	2.3	0.8	1.40	27	1050	2200	1.6	1.40	29	1100	2250
110600100240	240	30	34	2.5	0.8	1.40	30	1300	2800	1.6	1.56	32	1400	2900
110600100300	300	30	34	2.7	0.8	1.56	32	1600	3450	1.6	1.56	33	1650	3500
110600100400	400	53	53	3.0	0.8	1.56	37	1950	4400	2.0	1.56	39	2100	4580
110600100500	500	53	53	3.4	0.8	1.56	40	2400	5500	2.0	1.72	42	2700	5800
110600100630	630	53	53	3.9	0.8	1.72	45	3100	7000	2.0	1.88	48	3300	7200
110600100800	800	53	53	3.9	0.8	1.88	49	3700	8650	2.0	1.88	52	4000	8950
110600101000	1000	53	53	3.9	0.8	2.04	55	4600	10800	2.5	2.04	59	4900	11000

Electrical Parameters

Part Number	Nominal Cross Sectional Area (Sq. mm)	Max. DC Conductor Resistance at 20°C (Ω/km)		Max. AC Conductor Resistance at 70°C (Ω/km)		Approx. Reactance at 50 Hz (Ω/km)	Approx. Capacitance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Rating for 1sec. Duration (K.Amps)	
								With AL Cond.			With CU Cond.				
		AL	CU	AL	CU			Ground	Duct	Air	Ground	Duct	Air	AL	CU
110600100016	16	1.91	1.15	2.29	1.38	0.128	0.81	66	65	64	85	83	82	1.22	1.84
110600100025	25	1.2	0.727	1.44	0.87	0.12	0.87	86	84	84	110	110	110	1.9	2.88
110600100035	35	0.868	0.524	1.04	0.63	0.114	1	100	100	105	130	125	130	2.66	4.03
110600100050	50	0.641	0.387	0.769	0.464	0.11	1.03	120	115	130	155	150	165	3.8	5.75
110600100070	70	0.443	0.268	0.532	0.322	0.103	1.21	140	135	155	190	175	205	5.32	8.05
110600100095	95	0.32	0.193	0.384	0.232	0.101	1.27	175	155	190	220	200	245	7.22	10.9
110600100120	120	0.253	0.153	0.304	0.184	0.096	1.42	195	170	220	250	220	280	9.12	13.8
110600100150	150	0.206	0.124	0.247	0.1488	0.094	1.42	220	190	250	280	245	320	11.4	17.3
110600100185	185	0.164	0.0991	0.197	0.1189	0.092	1.44	240	210	290	305	260	370	14.1	21.3
110600100240	240	0.125	0.0754	0.151	0.0912	0.09	1.53	270	225	335	345	285	425	18.2	27.6
110600100300	300	0.1	0.0601	0.122	0.0733	0.088	1.56	295	245	380	375	310	475	22.8	34.5
110600100400	400	0.0778	0.047	0.0961	0.058	0.088	1.59	325	275	435	400	335	550	30.4	46
110600100500	500	0.0605	0.0366	0.076	0.0459	0.087	1.67	345	295	480	425	355	590	38	57.5
110600100630	630	0.0469	0.0283	0.061	0.0368	0.086	1.67	390	320	550	470	375	660	47.88	72.5
110600100800	800	0.0367	0.0221	0.0503	0.0303	0.083	1.75	450	380	610	530	423	725	60.8	92
110600101000	1000	0.0291	0.0176	0.0422	0.0255	0.082	1.94	500	414	680	590	471	870	76	115

AYFY/YFY-AYWY/YWY-2 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth

2 cores AL / CU conductor, PVC insulated, galvanised steel strip / wire armoured cables as per IS 1554 Part - 1.

Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded round or compact round or compact shape conductor Cl. 2 as per IS 8130

In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded round Cl. 2 as per IS 8130. 10 Sq. mm conductor is stranded round or stranded compact conductor Cl. 2 as per IS 8130

Above 10 Sq. mm conductor are stranded round or compact round or compacted shaped Cl. 2 as per IS 8130.

Insulation : PVC Type - A, as per IS 5831. (Option : HR PVC Type - C, as per IS 5831)

Core Color : Red, black

Inner Sheath : PVC / PVC tape as per IS 1554 (P - 1)

Armouring : Single armouring of G.I. Wire or G.I. Strip as per IS 3975

Outer Sheath : PVC Type ST - 1 as per IS 5831 (Option : PVC Type ST - 2 as per IS 5831 / FR Type / FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:

Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).

Insulation Type - PVC Type A / C.

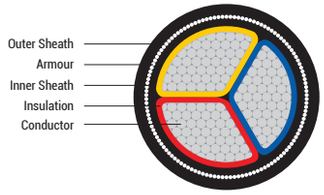
Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR /FRLS.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Minimum No. of Strands in Conductor		Nominal Thick.of Insulation (mm)	Minimum Thick. of Inner Sheath (mm)	Armouring with Flat Strip (AYFY/YFY)					Armouring with Round Wire (AYWY/YWY)				
						Nominal Thickness of Arm. Strip (mm)	Minimum Thick. of Outer Sheath. (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)		Nominal Diameter of Wire (mm)	Minimum Thick. of Outer Sheath. (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	
		AL	CU						AL Cable AYFY	CU Cable YFY				AL Cable AYWY	CU Cable YWY
110700200004	4	_	1/7	1.0	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	18	600	650
110700200006	6	1	1/7	1.0	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	19	660	730
110700200010	10	1	6	1.0	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	20	750	870
110700200016	16	6	6	1.0	0.3	0.8	1.40	18	580	780	1.6	1.40	20	750	950
110700200025	25	6	6	1.2	0.3	0.8	1.40	20	700	1000	1.6	1.40	22	900	1200
110700200035	35	6	6	1.2	0.3	0.8	1.40	22	800	1230	1.6	1.40	23	1030	1450
110700200050	50	6	6	1.4	0.4	0.8	1.40	25	1000	1620	1.6	1.56	26	1300	1900
110700200070	70	12	12	1.4	0.4	0.8	1.56	27	1200	2050	1.6	1.56	29	1500	2350
110700200095	95	15	15	1.6	0.4	0.8	1.56	30	1550	2720	2.0	1.56	33	2050	3200
110700200120	120	15	18	1.6	0.5	0.8	1.56	32	1800	3290	2.0	1.72	35	2400	3900
110700200150	150	15	18	1.8	0.5	0.8	1.72	35	2100	3970	2.0	1.72	37	2760	4600
110700200185	185	30	30	2.0	0.6	0.8	1.88	38	2500	4800	2.0	1.88	41	3200	5500
110700200240	240	30	34	2.2	0.6	0.8	2.04	43	3100	6080	2.5	2.04	47	4200	7200
110700200300	300	30	34	2.4	0.7	0.8	2.20	48	3700	7400	2.5	2.20	50	5000	8700
110700200400	400	53	53	2.6	0.7	0.8	2.36	53	4500	9450	3.2	2.52	58	6600	11500
110700200500	500	53	53	3.0	0.7	0.8	2.68	56	5600	11800	3.2	2.84	64	8000	14000
110700200630	630	53	53	3.4	0.7	0.8	2.84	66	6900	14700	4.0	3.00	72	11000	18800

Electrical Parameters

Part Number	Nominal Cross Sectional Area (Sq. mm)	Max. DC Conductor Resistance at 20°C (Ω/km)		Max. AC Conductor Resistance at 70°C (Ω/km)		Approx. Reactance at 50 Hz (Ω/km)	Approx. Capacitance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Rating for 1sec. Duration (K.Amps)	
								With AL Cond.			With CU Cond.				
		AL	CU	AL	CU			Ground	Duct	Air	Ground	Duct	Air	AL	CU
110700200004	4	_	4.61	_	5.53	0.098	0.23	32	27	27	41	35	35	0.304	0.46
110700200006	6	4.61	3.08	5.53	3.7	0.096	0.28	40	34	35	50	44	45	0.456	0.69
110700200010	10	3.08	1.83	3.7	2.2	0.091	0.34	55	45	47	70	58	60	0.76	1.15
110700200016	16	1.91	1.15	2.29	1.38	0.085	0.4	70	58	59	90	75	78	1.22	1.84
110700200025	25	1.2	0.727	1.44	0.87	0.083	0.42	90	76	78	115	97	105	1.9	2.88
110700200035	35	0.868	0.524	1.04	0.63	0.082	0.48	110	92	99	140	120	125	2.66	4.03
110700200050	50	0.641	0.387	0.769	0.464	0.082	0.49	135	115	125	165	145	155	3.8	5.75
110700200070	70	0.443	0.268	0.532	0.322	0.076	0.56	160	140	150	205	180	195	5.32	8.05
110700200095	95	0.32	0.193	0.384	0.232	0.076	0.58	190	170	185	240	215	230	7.22	10.9
110700200120	120	0.253	0.153	0.304	0.184	0.075	0.63	210	190	210	275	235	265	9.12	13.8
110700200150	150	0.206	0.124	0.247	0.1488	0.074	0.63	240	210	240	310	270	305	11.4	17.3
110700200185	185	0.164	0.0991	0.197	0.1189	0.074	0.64	275	240	275	350	300	350	14.1	21.3
110700200240	240	0.125	0.0754	0.151	0.0912	0.073	0.67	320	275	325	405	345	410	18.2	27.6
110700200300	300	0.1	0.0601	0.122	0.0733	0.073	0.68	355	305	365	450	385	465	22.8	34.5
110700200400	400	0.0778	0.047	0.0961	0.058	0.072	0.7	385	345	420	490	485	530	30.4	46
110700200500	500	0.0605	0.0366	0.0759	0.0459	0.072	0.7	425	380	475	540	460	605	38	57.5
110700200630	630	0.0469	0.0283	0.061	0.0368	0.072	0.7	465	415	540	640	550	785	47.9	72.5

AYFY/YFY-AYWY/YWY-3 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth

3 cores AL / CU conductor, PVC insulated, galvanised steel strip / wire armoured cables as per IS 1554 Part - 1.

Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded compacted shape Cl. 2 as per IS 8130

In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded class-2 as per IS 8130. 10 Sq. mm conductor is stranded Cl. 2 round as per IS 8130. Above 10 Sq. mm conductor are stranded compacted shaped Cl. 2 as per IS 8130

Insulation : PVC Type - A as per IS 5831. (Option : PVC Type - C as per IS 5831)

Core Color : Red, yellow, blue

Inner Sheath : PVC / PVC tape as per IS 1554 (P - 1)

Armouring : Single armouring of galvanised steel strip / wire

Outer Sheath : PVC Type ST-1 as per IS 5831 (Option : PVC Type ST - 2 as per IS 5831, FR Type, FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:

Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).

Insulation Type - PVC Type A / C.

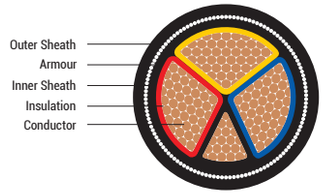
Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR / FRLS.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Minimum No. of Strands in Conductor		Nominal Thick.of Insulation (mm)	Minimum Thick. of Inner Sheath (mm)	Armouring with Flat Strip (AYFY/YFY)					Armouring with Round Wire (AYWY/YWY)				
						Nominal Thickness of Arm. Strip (mm)	Minimum Thick. of Outer Sheath. (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)		Nominal Diameter of Wire (mm)	Minimum Thick. of Outer Sheath. (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	
		AL	CU						AL Cable AYFY	CU Cable YFY				AL Cable AYWY	CU Cable YWY
110800300004	4	_	1/7	1.0	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	18	570	620
110800300006	6	1	1/7	1.0	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	19	670	780
110800300010	10	1	6	1.0	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.40	21	870	1080
110800300016	16	6	6	1.0	0.3	0.8	1.40	20	690	990	1.6	1.40	21	920	1230
110800300025	25	6	6	1.2	0.3	0.8	1.40	23	890	1340	1.6	1.40	23	1070	1520
110800300035	35	6	6	1.2	0.3	0.8	1.40	24	990	1640	1.6	1.56	26	1280	1930
110800300050	50	6	6	1.4	0.4	0.8	1.56	27	1300	2220	1.6	1.56	29	1580	2510
110800300070	70	12	12	1.4	0.4	0.8	1.56	31	1590	2900	2.0	1.56	33	2130	3430
110800300095	95	15	15	1.6	0.4	0.8	1.56	35	1990	3740	2.0	1.72	37	2630	4380
110800300120	120	15	18	1.6	0.5	0.8	1.72	37	2390	4620	2.0	1.88	39	2980	5180
110800300150	150	15	18	1.8	0.5	0.8	1.88	41	2790	5600	2.0	2.04	43	3530	6280
110800300185	185	30	30	2.0	0.6	0.8	1.88	46	3400	6830	2.5	2.20	49	4590	7980
110800300240	240	30	34	2.2	0.6	0.8	2.20	51	4200	8640	2.5	2.36	54	5580	9980
110800300300	300	30	34	2.4	0.7	0.8	2.36	56	5040	10620	2.5	2.68	59	6580	11980
110800300400	400	53	53	2.6	0.7	0.8	2.68	63	6290	13730	3.2	2.84	68	8690	15990
110800300500	500	53	53	3.0	0.7	0.8	3.00	70	7790	17090	3.2	3.00	75	10980	19980
110800300630	630	53	53	3.4	0.7	0.8	3.00	78	9690	21410	4.0	3.00	84	15990	25480

Electrical Parameters

Part Number	Nominal Cross Sectional Area (Sq. mm)	Max. DC Conductor Resistance at 20°C (Ω/km)		Max. AC Conductor Resistance at 70°C (Ω/km)		Approx. Reactance at 50 Hz (Ω/km)	Approx. Capacitance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Rating for 1sec. Duration (K.Amps)	
								With AL Cond.			With CU Cond.				
		AL	CU	AL	CU			Ground	Duct	Air	Ground	Duct	Air	AL	CU
110200200004	4	_	4.61	_	5.53	0.098	0.23	28	23	23	36	30	30	0.304	0.46
110200200006	6	4.61	3.08	5.53	3.7	0.096	0.28	35	30	30	45	38	39	0.456	0.69
110200200010	10	3.08	1.83	3.7	2.2	0.091	0.34	46	39	40	60	50	52	0.76	1.15
110200200016	16	1.91	1.15	2.29	1.38	0.085	0.4	60	50	51	77	64	66	1.22	1.84
110200200025	25	1.2	0.727	1.44	0.87	0.083	0.42	76	63	70	99	81	90	1.9	2.88
110200200035	35	0.868	0.524	1.04	0.63	0.082	0.48	92	77	86	120	99	110	2.66	4.03
110200200050	50	0.641	0.387	0.769	0.464	0.082	0.49	110	95	105	145	125	135	3.8	5.75
110200200070	70	0.443	0.268	0.532	0.322	0.076	0.56	135	115	130	175	150	165	5.32	8.05
110200200095	95	0.32	0.193	0.384	0.232	0.076	0.58	165	140	155	210	175	200	7.22	10.9
110200200120	120	0.253	0.153	0.304	0.184	0.075	0.63	185	155	180	240	195	230	9.12	13.8
110200200150	150	0.206	0.124	0.247	0.1488	0.074	0.63	210	175	205	270	225	265	11.4	17.3
110200200185	185	0.164	0.0991	0.197	0.1189	0.074	0.64	235	200	240	300	255	305	14.1	21.3
110200200240	240	0.125	0.0754	0.151	0.0912	0.073	0.67	275	235	280	345	295	355	18.2	27.6
110200200300	300	0.1	0.0601	0.122	0.0733	0.073	0.68	305	260	315	385	335	400	22.8	34.5
110200200400	400	0.0778	0.047	0.0961	0.058	0.072	0.7	335	290	375	425	360	435	30.4	46
110200200500	500	0.0605	0.0366	0.0759	0.0459	0.072	0.7	370	320	425	470	390	520	38	57.5
110200200630	630	0.0469	0.0283	0.061	0.0368	0.072	0.7	405	350	480	555	470	675	47.9	72.5

AYFY/YFY-AYWY/YWY-3.5 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
3.5 cores AL / CU Conductor, PVC insulated, galvanised steel strip / wire armoured cables as per IS 1554 Part - 1.
Conductor : AL/ CU Stranded compact shaped conductor as per Cl. 2, IS 8130
Insulation : PVC Type - A as per IS 5831. (Option : HR PVC Type - C, as per IS 5831)
Phase Core Color : Red, yellow, blue
Neutral Core Color : Black
Inner Sheath : PVC / PVC tape as per IS 1554 (P - 1)
Armouring : Single armouring of galvanised steel strip / wire
Outer Sheath : PVC Type ST - 1 as per IS 5831 (Option : PVC Type ST - 2 as per IS 5831, FR Type, FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Insulation Type - PVC Type A / C.
Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR / FRLS.

Part Number	Size Cores x Sq. mm + Neutral (Sq. mm)	Minimum No. of Strands in Conductor		Nominal Thick.of Insulation (mm)	Minimum Thick. of Inner Sheath (mm)	Armouring with Flat Strip (AYFY/YFY)					Armouring with Round Wire (AYWY/YWY)				
						Nominal Thickness of Arm. Strip (mm)	Minimum Thick. of Outer Sheath. (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)		Nominal Diameter of Wire (mm)	Minimum Thick. of Outer Sheath. (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	
		AL	CU						AL Cable AYFY	CU Cable YFY				AL Cable AYWY	CU Cable YWY
110901010211	3 x 25 + 16	6/6	6/6	1.2/1.0	0.3	0.8	1.40	24	1000	1550	1.6	1.40	26	1285	1825
110901020211	3 x 35 + 16	6/6	6/6	1.2/1.0	0.3	0.8	1.40	26	1200	1950	1.6	1.40	28	1425	2125
110901030211	3 x 50 + 25	6/6	6/6	1.4/1.2	0.3	0.8	1.56	30	1500	2600	1.6	1.56	31	1785	2790
110901040211	3 x 70 + 35	12/6	12/6	1.4/1.2	0.4	0.8	1.56	34	1800	3300	2.0	1.56	36	2390	3780
110901050211	3 x 95 + 50	15/6	15/6	1.6/1.4	0.4	0.8	1.56	37	2300	4350	2.0	1.72	39	2980	4980
110901060211	3 x 120 + 70	15/6	15/6	1.6/1.4	0.5	0.8	1.72	41	2800	5450	2.0	1.88	43	3480	6080
110901070211	3 x 150 + 70	15/6	15/6	1.8/1.4	0.5	0.8	1.88	45	3200	6400	2.0	1.88	47	3970	7180
110901080211	3 x 185 + 95	30/15	30/15	2/1.6	0.5	0.8	2.04	49	3900	7900	2.5	2.04	53	5185	9150
110901090211	3 x 240 + 120	30/15	30/15	2.20/1.6	0.6	0.8	2.20	55	4800	10000	2.5	2.30	58	6385	11480
110901100211	3 x 300 + 150	30/15	30/15	2.4/1.8	0.6	0.8	2.36	61	5800	12300	3.2	2.52	65	8180	14480
110901110211	3 x 400 + 185	53/30	53/30	2.6/2.0	0.7	0.8	2.68	69	7300	15800	3.2	2.63	75	9885	18380
110901120211	3 x 500 + 240	53/30	53/30	3.0/2.2	0.7	0.8	2.84	77	9000	19500	4.0	3.00	84	13480	23985
110901130211	3 x 630 + 300	53/30	53/30	3.4/2.40	0.7	0.8	3.00	87	11500	25000	4.0	3.00	92	15980	28480

Electrical Parameters

Part Number	Size Cores x Sq. mm + Neutral (Sq. mm)	Max. DC Conductor Resistance at 20°C (Ω/km)		Max. AC Conductor Resistance at 70°C (Ω/km)		Approx. Reactance at 50 Hz (Ω/km)	Approx. Capacitance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Rating for 1sec. Duration (K.Amps)	
								With AL Cond.			With CU Cond.				
		AL	CU	AL	CU			Ground	Duct	Air	Ground	Duct	Air	AL	CU
110901010211	3x25+16	1.2	0.727	1.44	0.87	0.083	0.42	76	63	70	99	81	90	1.9	2.88
110901020211	3x35+16	0.868	0.524	1.04	0.63	0.082	0.48	92	77	86	120	99	110	2.66	4.03
110901030211	3x50+25	0.641	0.387	0.769	0.464	0.082	0.49	110	95	105	145	125	135	3.8	5.75
110901040211	3x70+35	0.443	0.268	0.532	0.322	0.076	0.56	135	115	130	175	150	165	5.32	8.05
110901050211	3x95+50	0.32	0.193	0.384	0.232	0.076	0.58	165	140	155	210	175	200	7.22	10.9
110901060211	3x120+70	0.253	0.153	0.304	0.184	0.075	0.63	185	155	180	240	195	230	9.12	13.8
110901070211	3x150+70	0.206	0.124	0.247	0.1488	0.074	0.63	210	175	205	270	225	265	11.4	17.3
110901080211	3x185+95	0.164	0.0991	0.197	0.1189	0.074	0.64	235	200	240	300	255	305	14.1	21.3
110901090211	3x240+120	0.125	0.0754	0.151	0.0912	0.073	0.67	275	235	280	345	295	355	18.2	27.6
110901100211	3x300+150	0.1	0.0601	0.122	0.0733	0.073	0.68	305	260	315	385	335	400	22.8	34.5
110901110211	3x400+185	0.0778	0.047	0.0961	0.058	0.072	0.7	335	290	375	425	360	435	30.4	46
110901120211	3x500+240	0.0605	0.0366	0.0759	0.459	0.072	0.7	370	320	425	470	390	520	38	57.5
110901130211	3x630+300	0.0469	0.0283	0.061	0.0368	0.072	0.7	405	350	480	555	470	675	47.9	72.5

AYFY/YFY-AYWY/YWY-4 CORE

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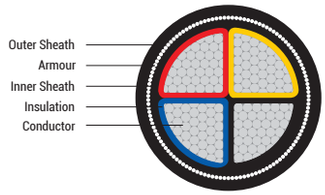


Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth

4 Cores AL / CU conductor, PVC insulated, galvanised steel strip / wire armoured cables as per IS 1554 Part - 1.

Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded compacted shape Cl. 2 as per IS 8130

In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded Cl. 2 as per IS 8130. 10 Sq. mm conductor is stranded Cl. 2 round as per IS 8130. Above 10 Sq. mm conductor are stranded compacted shaped Cl.2 as per IS 8130

Insulation : PVC Type - A as per IS 5831. (Option : PVC Type - C as per IS 5831)

Core Color : Red, yellow, blue, black

Inner Sheath : PVC / PVC tape as per IS 1554 (P-1)

Armouring : Single armouring of galvanised steel strip / wire

Outer Sheath : PVC Type ST - 1 as per IS 5831 (Option : PVC Type ST - 2 as per IS 5831, FR Type, FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While Ordering, in addition to the part number the following details shall also be advised:

Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).

Insulation Type - PVC Type A / C.

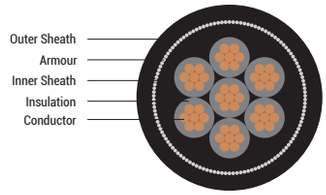
Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR / FRLS.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Minimum No. of Strands in Conductor		Nominal Thick.of Insulation (mm)	Minimum Thick. of Inner Sheath (mm)	Armouring with Flat Strip (AYFY/YFY)					Armouring with Round Wire (AYWY/YWY)				
						Nominal Thickness of Arm. Strip (mm)	Minimum Thick. of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)		Nominal Diameter of Wire (mm)	Minimum Thick. of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	
		AL	CU						AL Cable AYFY	CU Cable YFY				AL Cable AYWY	CU Cable YWY
111000400004	4	_	1/7	1.0	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	18	630	775
111000400006	6	1	1/7	1.0	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	21	870	1010
111000400010	10	1	6	1.0	0.3	0.8	1.40	21	750	998	1.6	1.40	22	890	1130
111000400016	16	6	6	1.0	0.3	0.8	1.40	22	860	1260	1.6	1.40	23	1110	1500
111000400025	25	6	6	1.2	0.3	0.8	1.40	25	1100	1720	1.6	1.40	27	1385	2000
111000400035	35	6	6	1.2	0.3	0.8	1.40	28	1300	2170	1.6	1.56	30	1580	2450
111000400050	50	6	6	1.4	0.4	0.8	1.56	32	1600	2850	2.0	1.56	34	2185	3425
111000400070	70	12	12	1.4	0.4	0.8	1.56	32	2000	3740	2.0	1.56	37	2625	4370
111000400095	95	15	15	1.6	0.4	0.8	1.72	40	2600	5000	2.0	1.72	42	3285	5640
111000400120	120	15	18	1.6	0.5	0.8	1.88	43	3050	6030	2.0	1.88	47	3825	6820
111000400150	150	15	18	1.8	0.5	0.8	1.88	48	3600	7325	2.5	2.04	51	4830	8560
111000400185	185	30	30	2.0	0.6	0.8	2.04	52	4300	8890	2.5	2.20	56	5780	10370
111000400240	240	30	34	2.2	0.6	0.8	2.36	59	5400	11355	2.5	2.36	62	7685	12940
111000400300	300	30	34	2.4	0.7	0.8	2.52	67	6600	14050	3.2	2.68	70	9185	16630
111000400400	400	53	53	2.6	0.7	0.8	2.84	74	8200	18128	3.2	2.84	76	10980	20390
111000400500	500	53	53	3.0	0.7	0.8	3.00	80	10500	22900	4.0	3.00	86	14980	27360
111000400630	630	53	53	3.4	0.7	0.8	3.00	90	13000	28625	4.0	3.00	96	17975	33600

Electrical Parameters

Part Number	Nominal Cross Sectional Area (Sq. mm)	Max. DC Conductor Resistance at 20°C (Ω/km)		Max. AC Conductor Resistance at 70°C (Ω/km)		Approx. Reactance at 50 Hz (Ω/km)	Approx. Capacitance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Rating for 1sec. Duration (K.Amps)	
								With AL Cond.			With CU Cond.				
		AL	CU	AL	CU			Ground	Duct	Air	Ground	Duct	Air	AL	CU
111000400004	4	_	4.61	_	5.53	0.098	0.23	28	23	23	36	30	30	0.304	0.46
111000400006	6	4.61	3.08	5.53	3.7	0.096	0.28	35	30	30	45	38	39	0.456	0.69
111000400010	10	3.08	1.83	3.7	2.2	0.091	0.34	46	39	40	60	50	52	0.76	1.15
111000400016	16	1.91	1.15	2.29	1.38	0.085	0.4	60	50	51	77	64	66	1.22	1.84
111000400025	25	1.2	0.727	1.44	0.87	0.083	0.42	76	63	70	99	81	90	1.9	2.88
111000400035	35	0.868	0.524	1.04	0.63	0.082	0.48	92	77	86	120	99	110	2.66	4.03
111000400050	50	0.641	0.387	0.769	0.464	0.082	0.49	110	95	105	145	125	135	3.8	5.75
111000400070	70	0.443	0.268	0.532	0.322	0.076	0.56	135	115	130	175	150	165	5.32	8.05
111000400095	95	0.32	0.193	0.384	0.232	0.076	0.58	165	140	155	210	175	200	7.22	10.9
111000400120	120	0.253	0.153	0.304	0.184	0.075	0.63	185	155	180	240	195	230	9.12	13.8
111000400150	150	0.206	0.124	0.247	0.1488	0.074	0.63	210	175	205	270	225	265	11.4	17.3
111000400185	185	0.164	0.0991	0.197	0.1189	0.074	0.64	235	200	240	300	255	305	14.1	21.3
111000400240	240	0.125	0.0754	0.151	0.0912	0.073	0.67	275	235	280	345	295	355	18.2	27.6
111000400300	300	0.1	0.0601	0.122	0.0733	0.073	0.68	305	260	315	385	335	400	22.8	34.5
111000400400	400	0.0778	0.047	0.0961	0.058	0.072	0.7	335	290	375	425	360	435	30.4	46
111000400500	500	0.0605	0.0366	0.0759	0.0459	0.072	0.7	370	320	425	470	390	520	38	57.5
111000400630	630	0.0469	0.0283	0.061	0.0368	0.072	0.7	405	350	480	555	470	675	47.9	72.5

YY/YFY/YWY-1.5 Sq. mm



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth

1.5 Sq. mm copper conductor, PVC insulated unarmoured & galvanised steel strip / wire armoured control cables as per IS 1554 Part - 1.

Conductor : CU conductor solid as per Cl.1 IS 8130 or stranded as per Cl. 2 IS 8130

Insulation Material : PVC Type -A as per IS 5831/Option : HR PVC (Type-C) as per IS 5831. Nominal Thickness of Insulation is 0.8 mm.

Core Colours : Up to 5 cores by colour coding & more than 5 cores number printing on core as per IS 1554 (P-1)

Inner Sheath : PVC / PVC tape as per IS 1554 (P - 1)

Armouring : Single armouring of galvanised steel strip / wire

Outer Sheath : PVC Type ST - 1 as per IS 5831 (Option : PVC Type ST - 2 as per IS 5831, FR Type / FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:

Class of conductor - Cl. 1 or 2.

Insulation Type - PVC Type A / C.

Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR / FRLS.

Part Number	No. of Cores	Minimum Thickness of Inner Sheath (mm)	Unarmoured (YY)			Armoured With Flat Strips (YFY)				Armoured With Round Wire (YWY)			
			Nominal Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	Nominal Thickness of Strip for Arm. (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. (kg/km)	Nominal Thickness of Strip for Arm. (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. (kg/km)
111100201105	2	0.3	1.8	12	180	N/A	N/A	N/A	N/A	1.4	1.24	13	380
111100301105	3	0.3	1.8	12.5	200	N/A	N/A	N/A	N/A	1.4	1.24	14	440
111100401105	4	0.3	1.8	13	230	N/A	N/A	N/A	N/A	1.4	1.24	15	480
111100501105	5	0.3	1.8	14	250	N/A	N/A	N/A	N/A	1.4	1.24	16	510
111100601105	6	0.3	1.8	15	290	N/A	N/A	N/A	N/A	1.4	1.24	17	570
111100701105	7	0.3	1.8	15	310	N/A	N/A	N/A	N/A	1.4	1.24	17	630
111101001105	10	0.3	1.8	18	420	N/A	N/A	N/A	N/A	1.4	1.24	20	780
111101201105	12	0.3	1.8	19	470	0.8	1.24	19	700	1.6	1.40	21	900
111101401105	14	0.3	1.8	20	530	0.8	1.40	20	800	1.6	1.40	22	980
111101601105	16	0.3	1.8	21	600	0.8	1.40	21	850	1.6	1.40	23	1050
111101901105	19	0.3	2.0	22	700	0.8	1.40	22	950	1.6	1.40	24	1160
111102401105	24	0.3	2.0	25	850	0.8	1.40	25	1150	1.6	1.40	27	1400
111102701105	27	0.3	2.0	26	920	0.8	1.40	26	1250	1.6	1.40	28	1480
111103001105	30	0.3	2.0	27	1000	0.8	1.40	27	1330	1.6	1.40	29	1600
111103701105	37	0.3	2.0	28	1200	0.8	1.40	29	1530	1.6	1.40	30	1800
111104001105	40	0.3	2.0	29	1270	0.8	1.40	30	1650	1.6	1.56	32	1980
111104401105	44	0.3	2.0	31	1400	0.8	1.56	32	1850	1.6	1.56	34	2150
111105201105	52	0.4	2.0	33	1650	0.8	1.56	34	2050	2.0	1.56	36	2650
111106101105	61	0.4	2.2	35	1850	0.8	1.56	35	2300	2.0	1.56	38	2950

Electrical Parameters

Part Number	No. of Cores	Max. DC Conductor Resistance at 20°C (Ω/km)	Approx. AC Conductor Resistance (Ω/km)		Reactance of Cable at 50 Hz (Ω/km)	Approx. Capaci-tance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Ratingfor 1sec. Duration	
							With General Insulation			With H.R. Insulation				
			at 70°C	at 85°C			Ground	Duct	Air	Ground	Duct	Air	With Gen. Purpose Insulation	With Heat Resistance Insulation
111100201105	2	12.1	14.52	15.2	0.112	0.2	23	20	20	26	24	24	0.156	0.173
111100301105	3	12.1	14.52	15.2	0.112	0.2	21	17	17	24	21	21	0.156	0.173
111100401105	4	12.1	14.52	15.2	0.112	0.2	21	17	17	24	21	21	0.156	0.173
111100501105	5	12.1	14.52	15.2	0.112	0.2	21	17	17	24	21	21	0.156	0.173
111100601105	6	12.1	14.52	15.2	0.112	0.2	15	13	13	17	16	16	0.156	0.173
111100701105	7	12.1	14.52	15.2	0.112	0.2	14	13	13	16	15	15	0.156	0.173
111101001105	10	12.1	14.52	15.2	0.112	0.2	13	11	11	15	13	13	0.156	0.173
111101201105	12	12.1	14.52	15.2	0.112	0.2	12	10	10	14	12	12	0.156	0.173
111101401105	14	12.1	14.52	15.2	0.112	0.2	11	10	10	13	12	12	0.156	0.173
111101601105	16	12.1	14.52	15.2	0.112	0.2	11	9	9	13	11	11	0.156	0.173
111101901105	19	12.1	14.52	15.2	0.112	0.2	10	9	9	11	11	11	0.156	0.173
111102401105	24	12.1	14.52	15.2	0.112	0.2	9	8	8	10	10	10	0.156	0.173
111102701105	27	12.1	14.52	15.2	0.112	0.2	9	8	8	10	10	10	0.156	0.173
111103001105	30	12.1	14.52	15.2	0.112	0.2	9	7	7	10	8	8	0.156	0.173
111103701105	37	12.1	14.52	15.2	0.112	0.2	8	7	7	9	8	8	0.156	0.173
111104001105	40	12.1	14.52	15.2	0.112	0.2	8	7	7	9	8	8	0.156	0.173
111104401105	44	12.1	14.52	15.2	0.112	0.2	7	7	7	8	7	7	0.156	0.173
111105201105	52	12.1	14.52	15.2	0.112	0.2	6	6	6	7	7	7	0.156	0.173
111106101105	61	12.1	14.52	15.2	0.112	0.2	6	6	6	7	7	7	0.156	0.173

YY/YFY/YWY-2.5 Sq. mm

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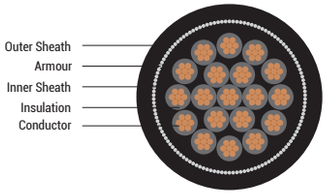

Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth

2.5 Sq. mm copper conductor, PVC insulated unarmoured & galvanised steel strip / wire armoured control cables as per IS 1554 Part - 1.

Conductor : CU conductor solid as per Cl .1 IS 8130 or stranded as per Cl. 2 IS 8130

Insulation Material : PVC Type - A as per IS 5831/ Option : HR PVC (Type - C) as per IS 5831. Nominal thickness of insulation is 0.9 mm

Core Colours : Up to 5 cores by colour coding & more than 5 cores number printing on core as per IS 1554 (P - 1)

Inner Sheath : PVC / PVC tape as per IS 1554 (P - 1)

Armouring : Single armouring of galvanised steel strip / wire

Outer Sheath : PVC Type ST - 1 as per IS 5831 (Option : PVC Type ST - 2 as per IS 5831, FR Type / FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:

Class of conductor - Cl. 1 or 2.

Insulation Type - PVC Type A / C.

Sheath Type - PVC Type ST - 1 / FR / FRLS; PVC Type ST - 2 / FR / FRLS.

Part Number	No. of Cores	Minimum Thickness of Inner Sheath (mm)	Unarmoured (YY)			Armoured With Flat Strips (YFY)				Armoured With Round Wire (YWY)			
			Nominal Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	Nominal Thickness of Strip for Arm. (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. (kg/km)	Nominal Thickness of Strip for Arm. (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. (kg/km)
111200201205	2	0.3	1.8	13	220	N/A	N/A	N/A	N/A	1.4	1.24	14	440
111200301205	3	0.3	1.8	14	260	N/A	N/A	N/A	N/A	1.4	1.24	15	480
111200401205	4	0.3	1.8	15	310	N/A	N/A	N/A	N/A	1.4	1.24	16	560
111200501205	5	0.3	1.8	16	340	N/A	N/A	N/A	N/A	1.4	1.24	17	600
111200601205	6	0.3	1.8	17	390	N/A	N/A	N/A	N/A	1.4	1.24	19	685
111200701205	7	0.3	1.8	17	424	N/A	N/A	N/A	N/A	1.6	1.24	19	720
111201001205	10	0.3	1.8	20	570	0.8	1.40	21	850	1.6	1.40	23	1040
111201201205	12	0.3	1.8	21	670	0.8	1.40	22	950	1.6	1.40	24	1130
111201401205	14	0.3	1.8	22	750	0.8	1.40	23	1050	1.6	1.40	25	1080
111201601205	16	0.3	1.8	24	840	0.8	1.40	24	1120	1.6	1.40	26	1180
111201901205	19	0.3	2.0	25	950	0.8	1.40	25	1250	1.6	1.40	27	1340
111202401205	24	0.3	2.0	28	1200	0.8	1.40	29	1550	1.6	1.56	31	1680
111202701205	27	0.3	2.0	29	1300	0.8	1.40	30	1650	1.6	1.56	32	1840
111203001205	30	0.3	2.0	30	1400	0.8	1.56	31	1800	1.6	1.56	33	1985
111203701205	37	0.4	2.0	33	1700	0.8	1.56	34	2100	2.0	1.56	36	2580
111204001205	40	0.4	2.0	34	1850	0.8	1.56	35	2300	2.0	1.56	37	2740
111204401205	44	0.4	2.0	36	2000	0.8	1.56	37	2500	2.0	1.56	40	2980
111205201205	52	0.4	2.0	38	2350	0.8	1.56	39	2850	2.0	1.72	42	3380
111206101205	61	0.4	2.2	40	2700	0.8	1.56	41	3250	2.0	1.72	44	3780

Electrical Parameters

Part Number	No. of Cores	Max. DC Conductor Resistance at 20°C (Ω/km)	Approx. AC Conductor Resistance (Ω/km)		Reactance of Cable at 50 Hz (Ω/km)	Approx. Capaci-tance of Cable (microF /KM)	Normal Current Rating (Amps)						Short Circuit Current Ratingfor 1sec. Duration	
							With General Insulation			With H.R. Insulation				
			at 70°C	at 85°C			Ground	Duct	Air	Ground	Duct	Air	With Gen. Purpose Insulation	With Heat Resistance Insulation
111200201205	2	7.41	8.89	9.34	0.107	0.22	32	27	27	38	32	32	0.26	0.288
111200301205	3	7.41	8.89	9.34	0.107	0.22	27	24	24	30	28	28	0.26	0.288
111200401205	4	7.41	8.89	9.34	0.107	0.22	27	24	24	30	28	28	0.26	0.288
111200501205	5	7.41	8.89	9.34	0.107	0.22	27	24	24	30	28	28	0.26	0.288
111200601205	6	7.41	8.89	9.34	0.107	0.22	21	18	18	24	21	21	0.26	0.288
111200701205	7	7.41	8.89	9.34	0.107	0.22	20	17	17	22	20	20	0.26	0.288
111201001205	10	7.41	8.89	9.34	0.107	0.22	18	15	15	20	16	16	0.26	0.288
111201201205	12	7.41	8.89	9.34	0.107	0.22	17	14	14	19	16	16	0.26	0.288
111201401205	14	7.41	8.89	9.34	0.107	0.22	16	13	13	18	15	15	0.26	0.288
111201601205	16	7.41	8.89	9.34	0.107	0.22	15	13	13	17	15	15	0.26	0.288
111201901205	19	7.41	8.89	9.34	0.107	0.22	14	12	12	16	14	14	0.26	0.288
111202401205	24	7.41	8.89	9.34	0.107	0.22	13	11	11	14	13	13	0.26	0.288
111202701205	27	7.41	8.89	9.34	0.107	0.22	12	10	10	13	12	12	0.26	0.288
111203001205	30	7.41	8.89	9.34	0.107	0.22	12	10	10	13	12	12	0.26	0.288
111203701205	37	7.41	8.89	9.34	0.107	0.22	11	9	9	12	10	10	0.26	0.288
111204001205	40	7.41	8.89	9.34	0.107	0.22	11	9	9	12	10	10	0.26	0.288
111204401205	44	7.41	8.89	9.34	0.107	0.22	10	9	9	11	10	10	0.26	0.288
111205201205	52	7.41	8.89	9.34	0.107	0.22	9	8	8	10	10	10	0.26	0.288
111206101205	61	7.41	8.89	9.34	0.107	0.22	8	8	8	9	9	9	0.26	0.288

A2XY/2XY-1 CORE

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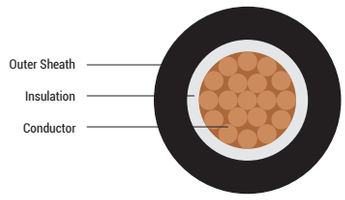

Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
1 cores AL / CU conductor, XLPE insulated, unarmoured cables as per IS 7098 Part - 1.
Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded round or compact Cl. 2 as per IS 8130
In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded Cl. 2 as per IS 8130. 10 Sq. mm & above stranded round or stranded compact Cl. 2 as per IS 8130
Insulation : Crosslinked polyethylene (XLPE)
Core Color : Red or yellow or blue or black or natural
Outer Sheath : PVC Type ST - 2 as per IS 5831 (Option: FR Type / FRLS Type)
Cable Color : Black (Options: Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Sheath Type - PVC Type ST - 2 (FR or FRLS).
Colour from above technical details.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Thickness of Insulation (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Net Wt. of Cable (kg/km)	
					AL Cable A2XY	CU Cable 2XY
111300100016	16	0.7	1.8	11	125	225
111300100025	25	0.9	1.8	12	170	330
111300100035	35	0.9	1.8	13	205	425
111300100050	50	1	1.8	15	250	550
111300100070	70	1.1	1.8	16	335	750
111300100095	95	1.1	1.8	18	425	1000
111300100120	120	1.2	1.8	20	515	1250
111300100150	150	1.4	2	22	615	1520
111300100185	185	1.6	2	24	770	1880
111300100240	240	1.7	2	27	965	2415
111300100300	300	1.8	2	30	1160	2980
111300100400	400	2	2.2	33	1480	3800
111300100500	500	2.2	2.2	36	1840	4815
111300100630	630	2.4	2.2	40	2350	6150
111300100800	800	2.6	2.4	47	2830	7840
111300101000	1000	2.8	2.6	51	3670	9800

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-2

A2XY/2XY-2 CORE

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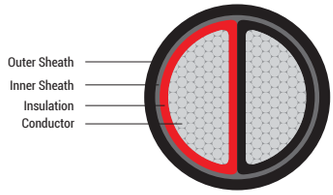


Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
2 cores AL / CU conductor, XLPE insulated, unarmoured cables as per IS 7098 Part - 1.
Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded round or compact round or compact shape conductor Cl. 2 as per IS:8130
In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded round Cl. 2 as per IS:8130. 10 Sq. mm conductor is stranded round or stranded compact conductor Cl. 2 as per IS 8130
Above 10 Sq. mm conductor are stranded round or compact round or compacted shaped Cl. 2 as per : IS 8130
Insulation : Crosslinked polyethylene (XLPE)
Core Color : Red, black
Inner Sheath : PVC / PVC tape as per IS 7098 (P - 1)
Outer Sheath : PVC Type ST - 2 as per IS 5831 (Option : FR Type / FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

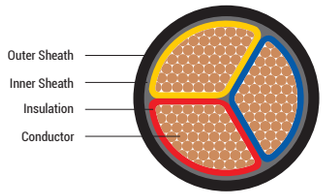
Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (class 1 or 2).
Sheath Type - PVC Type ST - 2 (FR or FRLS).

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Net Wt. of Cable (kg/km)	
						AL Cable A2XY	CU Cable 2XY
111400200004	4	0.7	0.3	1.8	13	180	235
111400200006	6	0.7	0.3	1.8	14	220	300
111400200010	10	0.7	0.3	1.8	17	280	400
111400200016	16	0.7	0.3	1.8	17	300	440
111400200025	25	0.9	0.3	2.0	19	340	650
111400200035	35	0.9	0.3	2.0	20	415	840
111400200050	50	1.0	0.3	2.0	22	520	1090
111400200070	70	1.1	0.3	2.0	25	680	1500
111400200095	95	1.1	0.4	2.2	28	880	2010
111400200120	120	1.2	0.4	2.2	31	1080	2500
111400200150	150	1.4	0.4	2.2	33	1295	3060
111400200185	185	1.6	0.5	2.4	37	1630	3840
111400200240	240	1.7	0.5	2.6	41	2070	4970
111400200300	300	1.8	0.6	2.8	44	2520	6160
111400200400	400	2.0	0.6	3.0	48	3200	7830
111400200500	500	2.2	0.7	3.4	54	4040	9990
111400200630	630	2.4	0.7	3.6	62	5130	12840

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-3

A2XY/2XY-3 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth

3 Cores AL / CU conductor, XLPE insulated, unarmoured cables as per IS 7098 Part - 1.

Conductor : AL up to 10 Sq. mm conductor are solid Cl.1 as per IS 8130. And above 10 Sq. mm conductor are stranded compacted shape Cl. 2 as per IS 8130

In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded Cl. 2 as per IS 8130. 10 Sq. mm conductor is stranded Cl. 2 round as per IS 8130. Above 10 Sq. mm conductor are stranded compacted shaped Cl. 2 as per IS 8130

Insulation : Crosslinked polyethylene (XLPE)

Core Color : Red, yellow, blue

Inner Sheath : PVC / PVC tape as per IS 7098 (P - 1)

Outer Sheath : PVC Type ST - 2 as per IS 5831 (Option : FR Type / FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:

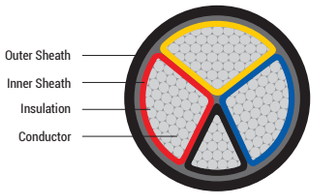
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).

Sheath Type - PVC Type ST - 2 (FR or FRLS).

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Net Wt. of Cable (kg/km)	
						AL Cable A2XY	CU Cable 2XY
111500300004	4	0.7	0.3	1.8	14	170	240
111500300006	6	0.7	0.3	1.8	16	200	300
111500300010	10	0.7	0.3	1.8	18	250	430
111500300016	16	0.7	0.3	1.8	18	310	600
111500300025	25	0.9	0.3	2.0	21	470	920
111500300035	35	0.9	0.3	2.0	22	570	1210
111500300050	50	1.0	0.3	2.0	25	720	1590
111500300070	70	1.1	0.4	2.2	30	950	2200
111500300095	95	1.1	0.4	2.2	32	1250	2980
111500300120	120	1.2	0.4	2.2	35	1520	3720
111500300150	150	1.4	0.5	2.4	39	1840	4550
111500300185	185	1.6	0.5	2.6	43	2310	5700
111500300240	240	1.7	0.6	2.8	49	3010	7390
111500300300	300	1.8	0.6	3.0	53	3600	9190
111500300400	400	2.0	0.7	3.2	59	4560	11700
111500300500	500	2.2	0.7	3.6	66	5780	14940
111500300630	630	2.4	0.7	3.8	73	7360	19230

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-4

A2XY/2XY-3.5 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
3.5 Cores AL / CU Conductor, XLPE Insulated, Unarmoured Cables as per IS:7098 Part-1.
Conductor : AL / CU Stranded compact shaped conductor as per Cl. 2, IS:8130
Insulation : Crosslinked polyethylene (XLPE)
Phase Core Color : Red, yellow, blue
Neutral Core Color : Black
Inner Sheath : PVC / PVC tape as per IS:7098 (P-1)
Outer Sheath : PVC Type ST-2 as per IS:5831 (Option: FR Type / FRLS Type)
Cable Color : Black (Options: Any other color as per requirement)

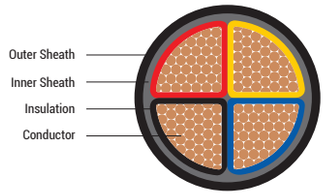
Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Sheath Type - PVC Type ST-2 (FR or FRLS).

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Net Wt. of Cable (kg/km)	
						AL Cable A2XY	CU Cable 2XY
111601010211	3 x 25 + 16	0.9/0.7	0.3	2.0	22	575	1125
111601020211	3 x 35 + 16	0.9/0.7	0.3	2.0	24	685	1425
111601030211	3 x 50 + 25	1.0/0.9	0.3	2.0	27	880	1980
111601040211	3 x 70 + 35	1.1/0.9	0.4	2.2	31	1185	2680
111601050211	3 x 95 + 50	1.1/1.0	0.4	2.2	34	1480	3580
111601060211	3 x 120 + 70	1.2/1.1	0.4	2.2	38	1880	4480
111601070211	3 x 150 + 70	1.4/1.1	0.5	2.4	43	2275	5485
111601080211	3 x 185 + 95	1.6/1.1	0.5	2.6	46	2770	6785
111601090211	3 x 240 + 120	1.7/1.2	0.6	2.8	52	3580	8675
111601100211	3 x 300 + 150	1.8/1.4	0.6	3.0	57	4380	10780
111601110211	3 x 400 + 185	2.0/1.6	0.7	3.4	65	5580	13980
111601120211	3 x 500 + 240	2.2/1.7	0.7	3.6	73	6980	17425
111601130211	3 x 630 + 300	2.4/1.8	0.7	4.0	82	8885	21970

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-4

A2XY/2XY-4 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
4 cores AL /CU conductor, XLPE insulated, unarmoured cables as per IS 7098 Part - 1.
Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded compacted shape Cl. 2 as per IS 8130
In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded Cl.2 as per IS 8130. 10 Sq. mm conductor is stranded Cl. 2 round as per IS 8130. Above 10 Sq. mm conductor are stranded compacted shaped Cl. 2 as per IS 8130
Insulation : Crosslinked polyethylene (XLPE)
Core Color : Red, yellow, blue, black
Inner Sheath : PVC / PVC tape as per IS 7098 (P - 1)
Outer Sheath : PVC Type ST - 2 as per IS 5831 (Option : FR Type / FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Sheath Type - PVC Type ST - 2 (FR or FRLS).

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Nominal Thickness of Outer Sheath (mm)	Approx. Overall Diameter (mm)	Approx. Net Wt. of Cable (kg/km)	
						AL Cable A2XY	CU Cable 2XY
111700400004	4	0.7	0.3	1.8	16	225	340
111700400006	6	0.7	0.3	1.8	17	315	480
111700400010	10	0.7	0.3	1.8	19	370	640
111700400016	16	0.7	0.3	1.8	20	440	840
111700400025	25	0.9	0.3	2.0	24	650	1290
111700400035	35	0.9	0.3	2.0	26	780	1685
111700400050	50	1	0.3	2.0	29	985	2190
111700400070	70	1.1	0.4	2.2	34	1380	3090
111700400095	95	1.1	0.4	2.2	37	1685	3980
111700400120	120	1.2	0.5	2.4	41	2125	5130
111700400150	150	1.4	0.5	2.6	45	2630	6230
111700400185	185	1.6	0.5	2.8	50	3230	7830
111700400240	240	1.7	0.6	3.0	56	4080	9980
111700400300	300	1.8	0.7	3.2	63	5030	12030
111700400400	400	2	0.7	3.6	70	6385	15980
111700400500	500	2.2	0.7	3.8	79	7980	19985
111700400630	630	2.4	0.7	4.0	88	9985	25985

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-4

A2XFaY/2XFaY-A2XWaY/2XWaY

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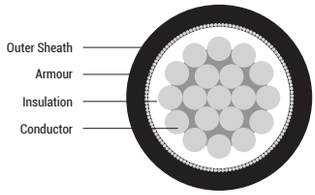


Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth

1 cores AL / CU conductor, XLPE insulated, aluminum strip / wire armoured cables as per IS 7098 Part - 1.

Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded round or compact Cl. 2 as per IS 8130

In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded Cl. 2 as per IS 8130. 10 Sq. mm & above stranded round or stranded compact Cl. 2 as per IS 8130

Insulation : Crosslinked polyethylene (XLPE)

Core Color : Red or yellow or blue or black

Armouring : Single armouring of aluminum strip or aluminum wire as per IS 7098 P - 1

Outer Sheath : PVC Type ST - 2 as per IS 5831 (Option : FR Type / FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:

Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).

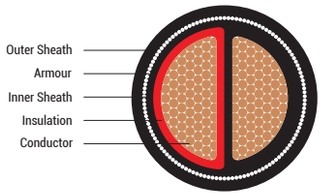
Sheath Type - PVC Type ST - 2 (FR or FRLS).

Colour from above technical details.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Thickness of Insulation (mm)	Armouring with flat strip (A2XFaY/ 2XFaY)					Armouring with Round Wire (AYWaY/YWaY)				
			Nominal Thickness of Arm. Strip (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx Net Wt. of Cable (kg/km)		Nominal Diameter of Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx Net Wt. of Cable (kg/km)	
						AL Cable A2XFaY	CU Cable 2XFaY				AL Cable AYWaY	CU Cable YWaY
111800100016	16	1.0	N/A	N/A	N/A	N/A	N/A	1.4	1.24	13	200	300
111800100025	25	1.2	N/A	N/A	N/A	N/A	N/A	1.4	1.24	14	300	455
111800100035	35	1.2	N/A	N/A	N/A	N/A	N/A	1.4	1.24	15	350	567
111800100050	50	1.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	17	420	730
111800100070	70	1.4	N/A	N/A	N/A	N/A	N/A	1.4	1.24	19	520	954
111800100095	95	1.4	0.8	1.4	21	600	1195	1.6	1.4	22	650	1235
111800100120	120	1.5	0.8	1.4	23	700	1450	1.6	1.4	24	750	1494
111800100150	150	1.7	0.8	1.4	24	800	1730	1.6	1.4	25	850	1780
111800100185	185	1.9	0.8	1.4	26	950	2100	1.6	1.4	28	1000	2147
111800100240	240	2	0.8	1.4	30	1200	2690	1.6	1.4	30	1250	2738
111800100300	300	2.1	0.8	1.56	32	1400	3270	1.6	1.56	33	1500	3360
111800100400	400	2.4	0.8	1.56	36	1750	4230	2	1.56	38	1900	4380
111800100500	500	2.6	0.8	1.56	39	2150	5250	2	1.56	41	2350	5450
111800100630	630	2.8	0.8	1.72	44	2700	6610	2	1.72	46	2900	6806
111800100800	800	3.1	0.8	1.72	48	3350	8320	2	1.88	51	3600	8560
111800101000	1000	3.3	0.8	1.88	54	4100	10300	2.5	2.04	56	4600	10800

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-4

A2XFY/2XFY-A2XWY/2XWY-2 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
2 cores AL / CU conductor, XLPE insulated, galvanised steel strip / wire armoured cables as per IS 7098 Part - 1.
Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded round or compact round or compact shape conductor Cl. 2 as per IS 8130
In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded round Cl. 2 as per IS 8130. 10 Sq. mm conductor is stranded round or stranded compact conductor Cl. 2 as per IS 8130
Above 10 Sq. mm conductor are stranded round or compact round or compacted shaped Cl. 2 as per IS 8130
Insulation : Crosslinked polyethylene (XLPE)
Core Color : Red, black
Inner Sheath : PVC / PVC tape as per IS 7098 (P-1)
Armouring : Single armouring of galvanised steel strip / wire as per IS 3975
Outer Sheath : PVC Type ST - 2 as per IS 5831 (Option : FR Type / FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Sheath Type - PVC Type ST - 2 (FR or FRLS).

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Thickness of Insulation mm	Minimum Thickness of Inner Sheath (mm)	Armouring with flat strip (A2XFY/ 2XFY)					Armouring with round wire (A2XWY/ 2XWY)				
				Nominal Thickness of Arm. Strip (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)		Nominal Diameter of Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	
							AL Cable A2XFY	CU Cable 2XFY				AL Cable AYWaY	CU Cable YWaY
111900200004	4	0.7	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	15	500	550
111900200006	6	0.7	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	16	550	600
111900200010	10	0.7	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	18	650	770
111900200016	16	0.7	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.4	19	700	900
111900200025	25	0.9	0.3	0.8	1.4	20	650	950	1.6	1.4	21	850	1150
111900200035	35	0.9	0.3	0.8	1.4	21	750	1200	1.6	1.4	23	950	1400
111900200050	50	1.0	0.3	0.8	1.4	23	900	1500	1.6	1.4	25	1100	1700
111900200070	70	1.1	0.3	0.8	1.56	26	1100	1950	1.6	1.56	28	1400	2250
111900200095	95	1.1	0.4	0.8	1.56	29	1350	2500	2.0	1.56	31	1850	3000
111900200120	120	1.2	0.4	0.8	1.56	31	1600	3100	2.0	1.56	34	2150	3600
111900200150	150	1.4	0.4	0.8	1.72	34	1900	3750	2.0	1.72	37	2450	4300
111900200185	185	1.6	0.5	0.8	1.72	37	2250	4500	2.0	1.88	40	2900	5200
111900200240	240	1.7	0.5	0.8	1.88	42	2800	5800	2.5	2.04	45	3850	6800
111900200300	300	1.8	0.6	0.8	2.04	45	3300	7000	2.5	2.2	49	4450	8200
111900200400	400	2.0	0.6	0.8	2.36	50	4100	9050	2.5	2.36	52	5350	10300
111900200500	500	2.2	0.7	0.8	2.52	55	5000	11000	3.2	2.68	60	7100	13300
111900200630	630	2.4	0.7	0.8	2.68	63	6100	14000	3.2	2.84	66	8500	16300

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-3

A2XFY/2XFY-A2XWY/2XWY-3 CORE

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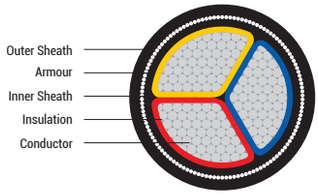


Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
3 cores AL / CU conductor, XLPE insulated, galvanised steel strip / wire armoured cables as per IS 7098 Part - 1.
Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded compacted shape Cl. 2 as per IS 8130.
In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded Cl. 2 as per IS 8130. 10 Sq. mm conductor is stranded Cl. 2,round as per IS 8130. Above 10 Sq. mm conductor are stranded compacted shaped Cl. 2 as per IS 8130.
Insulation : Crosslinked polyethylene (XLPE)
Core Color : Red, yellow, blue
Inner Sheath : PVC / PVC tape as per IS 7098 (P - 1)
Armouring : Single armouring of galvanised steel strip / wire
Outer Sheath : PVC Type ST - 2 as per IS 5831. (Option : FR Type / FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

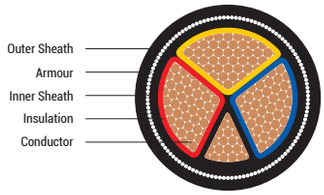
Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Sheath Type - PVC Type ST - 2 (FR or FRLS).

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Thickness of Insulation mm	Minimum Thickness of Inner Sheath (mm)	Armouring with flat strip (A2XFY/ 2XFY)					Armouring with round wire (A2XWY/ 2XWY)				
				Nominal Thickness of Arm. Strip (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)		Nominal Diameter of Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	
							AL Cable A2XFY	CU Cable 2XFY				AL Cable A2XWY	CU Cable 2XWY
112000300004	4	0.7	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	18	430	510
112000300006	6	0.7	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	19	470	600
112000300010	10	0.7	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	20	520	750
112000300016	16	0.7	0.3	0.8	1.24	19	590	890	1.6	1.4	20	730	1020
112000300025	25	0.9	0.3	0.8	1.4	21	790	1190	1.6	1.4	23	940	1400
112000300035	35	0.9	0.3	0.8	1.4	23	940	1490	1.6	1.4	25	1130	1750
112000300050	50	1	0.3	0.8	1.4	26	1090	1990	1.6	1.56	29	1330	2180
112000300070	70	1.1	0.4	0.8	1.56	29	1450	2690	2	1.56	32	1820	3070
112000300095	95	1.1	0.4	0.8	1.56	32	1740	3490	2	1.56	35	2210	3950
112000300120	120	1.2	0.4	0.8	1.56	35	2100	4190	2	1.72	39	2670	4840
112000300150	150	1.4	0.5	0.8	1.72	42	2520	5200	2	1.88	43	3450	6150
112000300185	185	1.6	0.5	0.8	1.88	44	2990	6300	2.5	2.04	48	3830	7160
112000300240	240	1.7	0.6	0.8	2.04	49	3740	8190	2.5	2.2	53	4720	8870
112000300300	300	1.8	0.6	0.8	2.2	54	4490	10000	2.5	2.36	58	6130	11380
112000300400	400	2	0.7	0.8	2.52	60	5590	12990	3.2	2.68	65	7390	14410
112000300500	500	2.2	0.7	0.8	2.68	66	6890	15990	3.2	2.84	72	9980	18490
112000300630	630	2.4	0.7	0.8	2.84	74	8540	19990	4	3	81	11820	22560

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-3

A2XFY/2XFY-A2XWY/2XWY-3.5 CORE



Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth
3.5 cores AL / CU conductor, XLPE insulated, galvanised steel strip / wire armoured Cables as per IS 7098 Part -1.
Conductor : AL / CU stranded compact shaped conductor as per Cl. 2, IS 8130.
Insulation : Crosslinked polyethylene (XLPE)
Phase Core Color : Red, yellow, blue
Neutral Core Color : Black
Inner Sheath : PVC / PVC tape as per IS 7098 (P - 1)
Armouring : Single armouring of galvanised steel strip / wire
Outer Sheath : PVC Type ST - 2 as per IS 5831. (Option : FR Type / FRLS Type)
Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:
Conductor Type (Aluminium or Copper) and class of conductor (Cl. 1 or 2).
Sheath Type - PVC Type ST - 2 (FR or FRLS).

Part Number	Size Cores x Sq. mm + Neutral (Sq. mm)	Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Armouring with flat strip (A2XFY/ 2XFY)					Armouring with round wire (A2XWY/ 2XWY)				
				Nominal Thickness of Arm. Strip (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)		Nominal Diameter of Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	
							AL Cable A2XFY	CU Cable 2XFY				AL Cable A2XWY	CU Cable 2XWY
112101010211	3x25+16	0.9/0.7	0.3	0.8	1.40	23	900	1400	1.6	1.40	25	1080	1685
112101020211	3x35+16	0.9/0.7	0.3	0.8	1.40	25	1000	1800	1.6	1.40	27	1285	1980
112101030211	3x50+25	1.0/0.9	0.3	0.8	1.40	28	1200	2300	1.6	1.56	30	1580	2685
112101040211	3x70+35	1.1/0.9	0.4	0.8	1.56	32	1600	3200	2.0	1.56	35	2190	3690
112101050211	3x95+50	1.1/1.0	0.4	0.8	1.56	35	2000	4100	2.0	1.56	38	2580	4585
112101060211	3x120+70	1.2/1.1	0.4	0.8	1.72	39	2400	5100	2.0	1.72	42	3085	5680
112101070211	3x150+70	1.4/1.1	0.5	0.8	1.72	43	2800	6000	2.0	1.88	46	3590	6790
112101080211	3x185+95	1.6/1.1	0.5	0.8	1.88	47	3400	7400	2.5	2.04	51	4675	8615
112101090211	3x240+120	1.7/1.2	0.6	0.8	2.04	53	4300	9500	2.5	2.20	56	5680	10485
112101100211	3x300+150	1.8/1.4	0.6	0.8	2.20	57	5000	11500	2.5	2.36	60	6685	12990
112101110211	3x400+185	2.0/1.6	0.7	0.8	2.52	66	6400	14500	3.2	2.68	71	8980	16980
112101120211	3x500+240	2.2/1.7	0.7	0.8	2.68	74	7900	18000	3.2	2.84	79	10985	21485
112101130211	3x630+300	2.4/1.8	0.7	0.8	3.00	82	9900	23000	4.0	3.00	88	14490	27985

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-4

A2XFY/2XFY-A2XWY/2XWY-4 CORE

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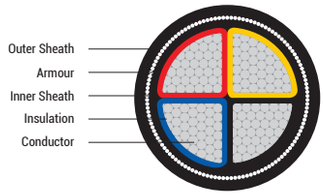

Cable Construction

1.1 kV (A.C) & 1.5 kV (D.C) to Earth

4 cores AL / CU conductor, XLPE insulated, galvanised steel strip / wire armoured cables as per IS 7098 Part - 1.

Conductor : AL up to 10 Sq. mm conductor are solid Cl. 1 as per IS 8130. And above 10 Sq. mm conductor are stranded compacted shape Cl. 2 as per IS 8130

In CU 4 & 6 Sq. mm conductor are solid Cl. 1 or stranded Cl. 2 as per IS 8130. 10 Sq. mm conductor is stranded Cl. 2, round as per IS 8130. Above 10 Sq. mm conductor are stranded compacted shaped Cl. 2 as per IS 8130

Insulation : Crosslinked polyethylene (XLPE)

Core Color : Red, yellow, blue, black

Inner Sheath : PVC / PVC tape as per IS 7098 (P - 1)

Armouring : Single armouring of galvanised steel strip / wire

Outer Sheath : PVC Type ST - 2 as per IS 5831 (Option : FR Type / FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:

Conductor Type (Aluminium or Copper) and Class of conductor (Cl. 1 or 2).

Sheath Type - PVC Type ST - 2 (FR or FRLS).

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Armouring with flat strip (A2XFY/ 2XFY)					Armouring with round wire (A2XWY/ 2XWY)				
				Nominal Thickness of Arm. Strip (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)		Nominal Diameter of Wire (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	
							AL Cable A2XFY	CU Cable 2XFY				AL Cable A2XWY	CU Cable 2XWY
112200400004	4	0.7	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	18	540	640
112200400006	6	0.7	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.24	19	590	760
112200400010	10	0.7	0.3	N/A	N/A	N/A	N/A	N/A	1.4	1.4	21	655	940
112200400016	16	0.7	0.3	0.8	1.4	20	700	1100	1.6	1.4	22	920	1280
112200400025	25	0.9	0.3	0.8	1.4	24	900	1500	1.6	1.4	26	1185	1750
112200400035	35	0.9	0.3	0.8	1.4	27	1100	2000	1.6	1.4	28	1420	2185
112200400050	50	1.0	0.3	0.8	1.56	30	1400	2500	1.6	1.56	32	1730	2830
112200400070	70	1.1	0.4	0.8	1.56	34	1800	3400	2.0	1.56	37	2375	3980
112200400095	95	1.1	0.4	0.8	1.56	37	2200	4400	2.0	1.72	40	2870	5130
112200400120	120	1.2	0.5	0.8	1.72	41	2700	5600	2.0	1.88	44	3475	6285
112200400150	150	1.4	0.5	0.8	1.88	46	3200	6800	2.5	2.04	49	4480	7980
112200400185	185	1.6	0.5	0.8	2.04	51	3900	8300	2.5	2.2	54	5185	9680
112200400240	240	1.7	0.6	0.8	2.20	57	4850	10500	2.5	2.36	65	6385	11985
112200400300	300	1.8	0.7	0.8	2.36	63	5850	13000	3.2	2.52	68	8280	15385
112200400400	400	2.0	0.7	0.8	2.68	71	7320	17000	3.2	2.84	76	9985	19480
112200400500	500	2.2	0.7	0.8	2.84	79	9000	21000	4.0	3.00	86	13480	24985
112200400630	630	2.4	0.7	0.8	3.00	88	11000	27000	4.0	3.00	94	15975	30485

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-4

2XY/2XFY/2XWY-1.5 Sq. mm

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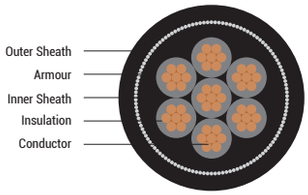


Cable Construction

1.5 Sq.mm copper conductor, XLPE insulated unarmoured & galvanised steel strip/wire armoured control cables as per IS 7098 Part-1

Conductor : CU Conductor solid as per Cl. 1 IS 8130 or Stranded as per Cl. 2 IS 8130

Insulation : Crosslinked polyethylene (XLPE)

Core Colours : Up to 5 cores by colour coding & more than 5 cores number printing on core as per IS 7098 Part - 1

Inner Sheath : PVC / PVC tape as per IS 7098 (P - 1)

Armouring : Single armouring of galvanised steel strip / wire

Outer Sheath : PVC Type ST - 2 as per IS 5831 (Option : FR Type / FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:

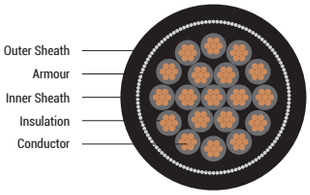
Class of conductor - Cl. 1 or 2.

Sheath Type - PVC Type ST - 2 (FR or FRLS).

Part Number	No. of Cores	Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Unarmoured (2XY)			Armoured With Flat Strips (2XFY)				Armoured With Round Wire (2XWY)			
				Nominal Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	Nominal Thickness of Arm. Strip (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	Nominal Thickness of Arm. Strip (mm)	Minimum Thickness of Outer Sheath (mm)	App. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)
112300201105	2	0.7	0.3	1.8	10	140	N/A	N/A	N/A	N/A	1.4	1.24	12.5	370
112300301105	3	0.7	0.3	1.8	10.5	160	N/A	N/A	N/A	N/A	1.4	1.24	13.0	390
112300401105	4	0.7	0.3	1.8	11.5	200	N/A	N/A	N/A	N/A	1.4	1.24	13.5	415
112300501105	5	0.7	0.3	1.8	12.5	225	N/A	N/A	N/A	N/A	1.4	1.24	14.5	465
112300601105	6	0.7	0.3	1.8	13.5	250	N/A	N/A	N/A	N/A	1.4	1.24	15.5	500
112300701105	7	0.7	0.3	1.8	13.5	260	N/A	N/A	N/A	N/A	1.4	1.24	15.5	520
112301001105	10	0.7	0.3	1.8	17	340	N/A	N/A	N/A	N/A	1.4	1.24	18.5	655
112301201105	12	0.7	0.3	1.8	17.5	390	N/A	N/A	N/A	N/A	1.6	1.40	19.0	720
112301401105	14	0.7	0.3	1.8	18	430	N/A	N/A	N/A	N/A	1.6	1.40	20.0	825
112301601105	16	0.7	0.3	1.8	18.5	475	0.8	1.40	19.0	750	1.6	1.40	21.0	925
112301901105	19	0.7	0.3	2.0	19.5	540	0.8	1.40	20.0	815	1.6	1.40	22.0	1010
112302401105	24	0.7	0.3	2.0	22.5	665	0.8	1.40	23.0	1000	1.6	1.40	25.0	1250
112302701105	27	0.7	0.3	2.0	23	750	0.8	1.40	23.5	1050	1.6	1.40	25.5	1330
112303001105	30	0.7	0.3	2.0	23.5	820	0.8	1.40	24.0	1125	1.6	1.40	26.0	1400
112303701105	37	0.7	0.3	2.0	26	665	0.8	1.40	26.0	1325	1.6	1.40	28.0	1550
112304001105	40	0.7	0.3	2.0	26	1050	0.8	1.40	26.5	1400	1.6	1.40	29.5	1700
112304401105	44	0.7	0.3	2.0	28	1150	0.8	1.40	28.5	1500	1.6	1.56	30.5	1850
112305201105	52	0.7	0.3	2.0	29	1300	0.8	1.56	30.5	1700	1.6	1.56	32.0	2050
112306101105	61	0.7	0.4	2.2	31	1500	0.8	1.56	32.0	1950	2.0	1.56	34.5	2550

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-8

2XY/2XFY/2XWY-2.5 Sq. mm



Cable Construction

2.5 Sq. mm copper conductor, XLPE insulated unarmoured & galvanised steel strip/wire armoured control cables as per IS 7098 Part- 1.

Conductor : CU conductor solid as per Cl. 1 IS 8130 or stranded as per Cl. 2 IS 8130

Insulation : Crosslinked polyethylene (XLPE)

Core Colours : Up to 5 cores by colour coding & more than 5 cores number printing on core as per IS 7098 Part - 1

Inner Sheath : PVC / PVC tape as per IS 7098 (P-1)

Armouring : Single armouring of galvanised steel strip / wire

Outer Sheath : PVC Type ST - 2 as per IS 5831 (Option : FR Type / FRLS Type)

Cable Color : Black (Options : Any other color as per requirement)

Cable Design Parameters

While ordering, in addition to the part number the following details shall also be advised:

Class of conductor - Cl. 1 or 2.

Sheath Type - PVC Type ST - 2 (FR or FRLS).

Part Number	No. of Cores	Nominal Thickness of Insulation (mm)	Minimum Thickness of Inner Sheath (mm)	Unarmoured (2XY)			Armoured With Flat Strips (2XFY)				Armoured With Round Wire (2XWY)			
				Nominal Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	Nominal Thickness of Arm. Strip (mm)	Minimum Thickness of Outer Sheath (mm)	Approx. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)	Nominal Thickness of Arm. Strip (mm)	Minimum Thickness of Outer Sheath (mm)	App. Overall Dia. (mm)	Approx. Net Wt. of Cable (kg/km)
112400201205	2	0.7	0.3	1.8	10.5	170	N/A	N/A	N/A	N/A	1.4	1.24	12.5	390
112400301205	3	0.7	0.3	1.8	11.5	200	N/A	N/A	N/A	N/A	1.4	1.24	13.0	420
112400401205	4	0.7	0.3	1.8	12.0	235	N/A	N/A	N/A	N/A	1.4	1.24	14.0	480
112400501205	5	0.7	0.3	1.8	13.0	270	N/A	N/A	N/A	N/A	1.4	1.24	15.0	540
112400601205	6	0.7	0.3	1.8	14.0	310	N/A	N/A	N/A	N/A	1.4	1.24	15.5	595
112400701205	7	0.7	0.3	1.8	14.0	335	N/A	N/A	N/A	N/A	1.4	1.24	15.5	620
112401001205	10	0.7	0.3	1.8	17.0	350	N/A	N/A	N/A	N/A	1.6	1.4	19.5	870
112401201205	12	0.7	0.3	1.8	19.0	520	0.8	1.4	19.0	760	1.6	1.4	21.0	985
112401401205	14	0.7	0.3	1.8	19.5	575	0.8	1.4	19.5	820	1.6	1.4	21.5	1030
112401601205	16	0.7	0.3	2.0	20.0	655	0.8	1.4	20.0	890	1.6	1.4	22.0	1105
112401901205	19	0.7	0.3	2.0	21.0	745	0.8	1.4	21.0	990	1.6	1.4	23.0	1225
112402401205	24	0.7	0.3	2.0	23.5	910	0.8	1.4	24.0	1210	1.6	1.4	25.5	1470
112402701205	27	0.7	0.3	2.0	24.0	1040	0.8	1.4	24.5	1300	1.6	1.4	26.5	1580
112403001205	30	0.7	0.3	2.0	25.0	1085	0.8	1.4	25.5	1400	1.6	1.4	27.0	1680
112403701205	37	0.7	0.3	2.0	27.0	1290	0.8	1.4	27.5	1635	1.6	1.56	29.0	1950
112404001205	40	0.7	0.3	2.0	28.0	1390	0.8	1.56	28.5	1770	1.6	1.56	30.5	2145
112404401205	44	0.7	0.4	2.2	31.0	1550	0.8	1.56	31.0	1950	2	1.56	33.5	2525
112405201205	52	0.7	0.4	2.2	32.0	1790	0.8	1.56	32.5	2200	2	1.56	35.0	2785
112406101205	61	0.7	0.4	2.2	34.0	2050	0.8	1.56	34.0	2490	2	1.56	36.5	3105

For conductor and resistance refer table no. 16-1
For capacitances, reactance, short circuit rating refer table no. 16-5, 16-6 and 16-7
For current rating refer table no. 16-8

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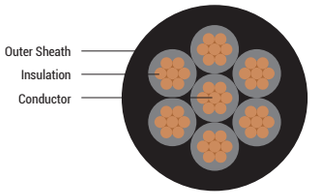


Application

Power cables for energy supply are installed in open air, in underground, in water, indoors, in cable ducts, power stations, for industry and distribution boards as well as in subscriber networks, where mechanical damages are not to be expected.

Technical Data

Power and control cable to IEC 60502-1
Temperature Range : Flexing - 5°C to + 50°C. Fixed installation -20°C to +70°C
Nominal Voltage : UO / U 0.6 / 1 kV
Test Voltage : 4 kV
Max. permissible tensile stress with cable grip for CU-conductor : 50 N/mm²
Minimum Bending Radius : For single core approx. 15 x cable ø. For multi core approx. 12 x cable ø.

Cable Constructtion

Plain copper conductor, to DIN VDE 0295.
Cl. 1 or Cl. 2 solid or stranded type, BS 6360.
Cl. 1 or Cl.2, IEC 60228 and HD 383.
PVC core insulation, DIV4 to HD 603.1.
Cores stranded concentrically.
Colour coded to DIN VDE 0293 - 308, 0276 part 603 or HD 186.
Core colour for 3 + 1/2 conductor.
J-type : gnyl (1/2) bn, bk, gy.
O-type : bu (1/2) bn, bk, gy.
PVC outer jacket, DMV5 to HD 603.1.
Sheath Colour : Black.

Properties

Flame propagation test according to IEC 60332 - 1 - 2.
Highest permissible voltage.
Direct current systems 1.8 kV.
Alternating current systems, single-phase systems 1.4 kV.
Both conductor insulated, single-phase systems 0.7 kV.
One conductor earthed, three-phase systems 1.2 kV with concentric conductor and a cross-section of 240 mm² and above 3.6 kV.

Cable Design Parameters

Kindly complete the part numbers for these cables by adding the suffix (in place of 'xx') for the type required: 01-J-Type, 02-O-Type.

Part Number	No. of Cores and Nominal Cross-Section Area (Sq. mm)	Approx. Cable Diameter (mm)	Approx. Copper Weight (kg/km)	Approx. Weight Cable (kg/km)
112500101xx11	1 x 4 re	6.5	34	80
112500102xx11	1 x 6 re	7.0	51	102
112500103xx11	1 x 10 re	7.9	86	147
112500104xx11	1 x 16 re	8.9	137	210
112500105xx11	1 x 25 rm	11.3	217	335
112500106xx11	1 x 35 rm	12.5	301	439
112500107xx11	1 x 50 rm	14.3	408	587
112500108xx11	1 x 70 rm	16.2	589	807
112500109xx11	1 x 95 rm	18.6	818	1100
112500110xx11	1 x 120 rm	20.3	1031	1357
112500111xx11	1 x 150 rm	22.4	1273	1665
112500112xx11	1 x 185 rm	24.8	1592	2067
112500113xx11	1 x 240 rm	28.0	2093	2686
112500114xx11	1 x 300 rm	30.9	2626	3341
112500115xx11	1 x 400 rm	34.5	3357	4231
112500116xx11	1 x 500 rm	38.5	4311	5379
112500117xx11	1 x 630 rm	42.7	5576	6846
112500118xx11	2 x 1.5 re	10.5	26.1	156.1
112500119xx11	2 x 2.5 re	11.3	42.6	191.5
112500120xx11	2 x 4 re	13.1	68.5	268.5
112500121xx11	2 x 6 re	14.2	102.5	332.4
112500122xx11	2 x 10 re	15.9	172.5	454.4
112500123xx11	2 x 16 re	17.9	274.4	621.1
112500124xx11	2 x 25 rm	24.2	441.9	1089.2
112500125xx11	3 x 1.5 re	11.0	39.1	180
112500126xx11	3 x 2.5 re	11.9	63.9	225
112500127xx11	3 x 4 re	13.9	102.7	320
112500128xx11	3 x 6 re	15.0	153.7	403
112500129xx11	3 x 10 re	16.9	258.7	564
112500130xx11	3 x 16 re	19	411.6	785
112500131xx11	3 x 25 rm	24.2	662.8	1270
112500132xx11	3 x 35 sm	22.6	901.4	1382
112500133xx11	3 x 50 sm	25.7	1220.5	1829
112500134xx11	3 x 70 sm	28.7	1762.5	2487
112500135xx11	3 x 95 sm	33.3	2447.4	3410

Part Number	No. of Cores and Nominal Cross-Section Area (Sq. mm)	Approx. Cable Diameter (mm)	Approx. Copper Weight (kg/km)	Approx. Weight Cable (kg/km)
112500136xx11	3 x 120 sm	35.9	3087.2	4171
112500137xx11	3 x 150 sm	39.5	3809.3	5107
112500138xx11	3 x 185 sm	44	4766.4	6372
112500139xx11	3 x 240 sm	49.3	6264.6	8234
112500140xx11	4 x 1.5 re	11.8	52.2	214
112500141xx11	4 x 2.5 re	12.8	85.2	271
112500142xx11	4 x 4 re	15	136.9	390
112500143xx11	4 x 6 re	16.3	204.9	496
112500144xx11	4 x 10 re	18.4	344.9	701
112500145xx11	4 x 16 re	20.7	548.9	986
112500146xx11	4 x 25 rm	26.7	883.7	1604
112500147xx11	4 x 35 sm	27.1	1201.9	1813
112500148xx11	4 x 50 sm	30.9	1627.4	2404
112500149xx11	4 x 70 sm	35.3	2350	3324
112500150xx11	4 x 95 sm	40.5	3263.2	4512
112500151xx11	4 x 120 sm	44.3	4116.3	5582
112500152xx11	4 x 150 sm	48.8	5079	6833
112500153xx11	4 x 185 sm	54.3	6355.2	8520
112500154xx11	4 x 240 sm	61	8352.7	11016
112500155xx11	5 x 1.5 re	12.7	65.2	251
112500156xx11	5 x 2.5 re	13.8	106.5	321
112500157xx11	5 x 4 re	16.3	171.1	467
112500158xx11	5 x 6 re	17.7	256.2	597
112500159xx11	5 x 10 re	20	431.1	851
112500160xx11	5 x 16 re	22.7	686.1	1203
112500161xx11	5 x 25 rm	29.3	1104.6	1966
112500162xx11	5 x 35 rm	32.9	1532.6	2602
112500163xx11	5 x 50 rm	37.9	2075.1	3482
112500164xx11	7 x 1.5 re	13.6	91.3	295
112500165xx11	7 x 2.5 re	14.9	149.1	384
112500166xx11	7 x 4 re	17.6	239.6	564
112500167xx11	7 x 6 re	19.2	358.6	731
112500168xx11	7 x 10 re	21.8	603.6	1058
112500169xx11	10 x 1.5 re	18.5	130.4	477
112500170xx11	10 x 2.5 re	18.4	213	543

Part Number	No. of Cores and Nominal Cross-Section Area (Sq. mm)	Approx. Cable Diameter (mm)	Approx. Copper Weight (kg/km)	Approx. Weight Cable (kg/km)
112500171xx11	12 x 1.5 re	17.3	156.5	466
112500172xx11	12 x 2.5 re	19	255.5	616
112500173xx11	14 x 1.5 re	18.1	182.6	524
112500174xx11	14 x 2.5 re	19.9	298.1	696
112500175xx11	16 x 1.5 re	19	208.7	584
112500176xx11	16 x 2.5 re	20.9	340.7	779
112500177xx11	19 x 1.5 re	20	247.8	667
112500178xx11	19 x 2.5 re	22	404.6	895
112500179xx11	21 x 1.5 re	21	273.9	731
112500180xx11	21 x 2.5 re	23.2	447.2	983
112500181xx11	24 x 1.5 re	23.1	273.9	779
112500182xx11	24 x 2.5 re	25.6	511.1	1133
112500183xx11	30 x 1.5 re	24.4	391.2	999
112500184xx11	30 x 2.5 re	27	638.9	1354
112500185xx11	40 x 1.5 re	27.4	521.6	1282
112500186xx11	40 x 2.5 re	30.8	851.8	1782
112500187xx11	52 x 2.5 re	34.6	1107.4	2268
112500188xx11	61 x 1.5 re	33.1	795.5	1905

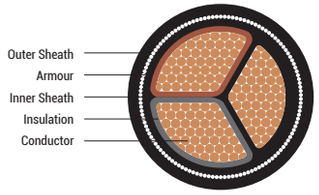
*3 + 1/2 - Conductors

Part Number	No. of Cores and Nominal Cross-Section Area (Sq. mm)	Approx. Cable Diameter (mm)	Approx. Copper Weight (kg/km)	Approx. Weight Cable (kg/km)
112500189xx11	3 x 25 / 16 rm	23.6	786.6	200
112500190xx11	3 x 35 / 16 sm	25.4	1038.3	225
112500191xx11	3 x 50 / 25 sm	29.3	1437.1	281
112500192xx11	3 x 70 / 35 sm	33.3	2063	346
112500193xx11	3 x 95 / 50 sm	38.1	2854.2	433
112500194xx11	3 x 120 / 70 sm	41.7	3674.7	503
112500195xx11	3 x 150 / 70 sm	45.4	4396.8	580
112500196xx11	3 G 185 / 95 sm	50.6	5582.2	698
112500197xx11	3 x 240 / 120 sm	56.8	7293.6	854
112500198xx11	3 x 300 / 150 sm	62.7	9129.1	1013

Note :
re = round conductor, single-wire; rm = round conductor, multiply-wire; sm = stranded, sectional core.
***In respect to 3 + 1/2 conductors**
Whereby only one conductor is allowed to contain a smaller cross-section (as per DIN VDE 0276 part 603 table 5) and permitted to place as insulated core (Green/Yellow and Blue as 1/2-conductor) stranded in layer.
For current rating refer table no. 13-1

POWER CABLE-BS 5467

REACH I RoHS I CE



Application

Industrial wiring and mains distribution. Can be laid direct in the ground, or in ducts, clipped to surface, on trays or in free air. May be embedded in concrete.

Standard

BS 5467

Technical Data

Voltage Rating : 600/1000V
Minimum Bending Radius : 15 x Cable diameter
Maximum Conductor Temperature : 90°C

Cable Construction

Single, two, three, four and five core cables. Stranded plain copper conductors, XLPE insulated, cores laid up, extruded PVC bedding, galvanised steel wire armoured (Aluminium wires for single cores) and PVC sheathed.
Core colours:
Single core : Brown or blue.
Two core : Brown, blue.
Three core : Brown, black, grey.
Four core : Brown, black, grey, blue.
Five code : Brown, black, grey, green/yellow, blue.
(There is the option for core colour as per customer requirement).
Sheath Colour : Black (Other colour as per customer requirement)

Note : Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see regulation 512-1-2 of BS 7671, the 17th Edition of IEE Wiring Regulations). Cables with reduced Flame Propagation and designs with alternative core identification are available to order.
Cables up to 1 x 300 Sq. mm, 2...4 x 400 Sq. mm BASEC Certified.

Cable Design Parameters

	Part Number	Nominal Cross Sectional Area (Sq. mm)	Insulation Thickness (mm)	Armour Wire Diameter (mm)	Approx. Dia. under Armour (mm)	Approx Overall Diameter (mm)	Approx Cable Weight (kg/km)	Maximum Resistance of Cable		Reactance at 50 Hz (Ω/km)	Impedance AC at 90°C (Ω/km)	Star Capacitance (µF/km)	Maximum Armour Resistance (Ω/km)
								DC at 20°C (Ω/km)	AC at 90°C (Ω/km)				
Single Core Aluminium Wire Armour	112600100050	50	1.0	0.9	12.7	17.5	800	0.387	0.4938	0.104	0.505	0.41	1.3
	112600100070	70	1.1	1.25	14.7	20.2	960	0.268	0.341	0.101	0.356	0.46	0.75
	112600100095	95	1.1	1.25	16.6	22.3	1240	0.193	0.2469	0.097	0.265	0.53	0.67
	112600100120	120	1.2	1.25	18.5	24.2	1510	0.153	0.1962	0.094	0.217	0.56	0.61
	112600100150	150	1.4	1.6	20.8	27.4	1900	0.124	0.1594	0.095	0.186	0.52	0.42
	112600100185	185	1.6	1.6	23.2	30	2320	0.0991	0.128	0.093	0.158	0.54	0.38
	112600100240	240	1.7	1.6	26	32.8	2930	0.0754	0.0985	0.09	0.134	0.59	0.34
	112600100300	300	1.8	1.6	28.6	35.6	3580	0.0601	0.0797	0.088	0.119	0.63	0.31

	Part Number	Nominal Cross Sectional Area (Sq. mm)	Insulation Thickness (mm)	Armour Wire Diameter (mm)	Approx. Dia. under Armour (mm)	Approx Overall Diameter (mm)	Approx Cable Weight (kg/km)	Maximum Resistance of Cable		Reactance at 50 Hz (Ω/km)	Impedance AC at 90°C (Ω/km)	Star Capacitance (µF/km)	Maximum Armour Resistance (Ω/km)
								DC at 20°C (Ω/km)	AC at 90°C (Ω/km)				
	112600100400	400	2.0	2	32.4	40.4	4600	0.047	0.0635	0.089	0.109	0.62	0.22
	112600100500	500	2.2	2	36	44.2	5770	0.0366	0.0513	0.087	0.101	0.66	0.2
	112600100630	630	2.4	2	40.4	48.8	7250	0.0283	0.0419	0.085	0.095	0.7	0.18
	112600100800	800	2.6	2.5	45.6	55.4	9381	0.0221	0.0349	0.087	0.094	0.85	0.13
	112600101000	1000	2.8	2.5	50.6	60.6	11540	0.0176	0.0303	0.085	0.09	0.87	0.12
Single Core Aluminium Wire Armour	112600201105	1.5	0.6	0.9	7.03	12.1	302	12.1	15.428	0.104	15.428	0.23	10.2
	112600201205	2.5	0.7	0.9	8.5	13.6	346	7.41	9.448	0.101	9.449	0.25	8.8
	112600200004	4	0.7	0.9	9.4	14.7	410	4.61	5.878	0.099	5.879	0.27	7.9
	112600200006	6	0.7	0.9	10.5	15.9	499	3.08	3.927	0.094	3.928	0.3	7
	112600200010	10	0.7	0.9	12	18	648	1.83	2.333	0.093	2.335	0.32	6
	112600200016	16	0.7	1.25	14	20.4	978	1.15	1.466	0.088	1.469	0.35	3.7
	112600200025	25	0.9	1.25	15	20.4	1290	0.727	0.926	0.082	0.93	0.38	3.7
	112600200035	35	0.9	1.6	17	23.3	1500	0.524	0.6685	0.077	0.673	0.42	2.6
	112600200050	50	1.0	1.6	19	25.8	1890	0.387	0.494	0.076	0.5	0.45	2.3
	112600200070	70	1.1	1.6	22	29	2450	0.268	0.3412	0.075	0.349	0.49	2
	112600200095	95	1.1	2	25	33.1	3300	0.193	0.2471	0.074	0.258	0.55	1.4
	112600200120	120	1.2	2	28	36.1	4020	0.153	0.1964	0.072	0.209	0.57	1.3
	112600200150	150	1.4	2	30.9	39.3	4750	0.124	0.1597	0.073	0.176	0.57	1.20
	112600200185	185	1.6	2.5	34.9	44.7	6180	0.0991	0.1284	0.073	0.148	0.55	0.82
	112600200240	240	1.7	2.5	39	49	7570	0.0754	0.0989	0.072	0.122	0.6	0.73
	112600200300	300	1.8	2.5	43.3	53.5	9180	0.0601	0.0801	0.072	0.107	0.62	0.67
	112600200400	400	2.0	2.5	48.4	59	10500	0.047	0.0641	0.071	0.096	0.64	0.59
Three Core Steel Wire Armour	112600301105	1.5	0.6	0.9	7.8	12.6	330	12.1	15.428	0.104	15.428	0.23	9.5
	112600301205	2.5	0.7	0.9	9.2	14.1	390	7.41	9.448	0.101	9.449	0.25	8.2
	112600300004	4	0.7	0.9	10	15.3	464	4.61	5.878	0.099	5.879	0.27	7.5
	112600300006	6	0.7	0.9	11.2	16.6	568	3.08	3.927	0.094	3.928	0.3	6.7
	112600300010	10	0.7	1.25	13.1	19.5	866	1.83	2.333	0.093	2.335	0.32	4
	112600300016	16	0.7	1.25	15.3	21.6	1152	1.15	1.466	0.088	1.469	0.35	3.5
	112600300025	25	0.9	1.6	18.9	25.5	1800	0.727	0.926	0.082	0.93	0.37	2.5
	112600300035	35	0.9	1.6	21.3	28	2230	0.524	0.6685	0.077	0.673	0.42	2.3
	112600300050	50	1.0	1.6	21.7	28.5	2490	0.387	0.494	0.076	0.5	0.45	2
	112600300070	70	1.1	1.6	25.2	32.2	3290	0.268	0.3412	0.075	0.349	0.49	1.8
	112600300095	95	1.1	2	28.8	37	4440	0.193	0.2471	0.074	0.258	0.55	1.3
	112600300120	120	1.2	2	32	40.4	5470	0.153	0.1964	0.072	0.209	0.57	1.2
	112600300150	150	1.4	2.5	35.9	45.5	6930	0.124	0.1597	0.073	0.176	0.55	0.78
	112600300185	185	1.6	2.5	40	49.8	8350	0.0991	0.1284	0.073	0.148	0.55	0.71
	112600300240	240	1.7	2.5	44.9	55.1	10400	0.0754	0.0989	0.072	0.122	0.6	0.63
	112600300300	300	1.8	2.5	49.8	60.2	12600	0.0601	0.0801	0.072	0.107	0.62	0.58
	112600300400	400	2.0	2.5	55.8	66.6	14600	0.047	0.0641	0.071	0.096	0.64	0.52

	Part Number	Nominal Cross Sectional Area (Sq. mm)	Insulation Thickness (mm)	Armour Wire Diameter (mm)	Approx. Dia. under Armour (mm)	Approx Overall Diameter (mm)	Approx Cable Weight (kg/km)	Maximum Resistance of Cable		Reactance at 50 Hz (Ω/km)	Impedance AC at 90°C (Ω/km)	Star Capacitance (µF/km)	Maximum Armour Resistance (Ω/km)
								DC at 20°C (Ω/km)	AC at 90°C (Ω/km)				
Four Core Steel Wire Armour	112600401105	1.5	0.6	0.9	8.5	13.5	365	12.1	15.428	0.104	15.428	0.23	8.8
	112600401205	2.5	0.7	0.9	9.9	15	438	7.41	9.448	0.101	9.449	0.25	7.7
	112600400004	4	0.7	0.9	11	16.4	532	4.61	5.878	0.099	5.879	0.27	6.8
	112600400006	6	0.7	1.25	12.3	18.7	764	3.08	3.927	0.094	3.928	0.3	4.3
	112600400010	10	0.7	1.25	14.5	21.1	1013	1.83	2.333	0.093	2.336	0.32	3.7
	112600400016	16	0.7	1.25	0.00	22.9	1360	1.15	1.466	0.088	1.469	0.35	3.1
	112600400025	25	0.9	1.6	21	27.6	2160	0.727	0.926	0.082	0.93	0.37	2.3
	112600400035	35	0.9	1.6	23.6	30.4	2690	0.524	0.6685	0.077	0.673	0.42	2
	112600400050	50	1	1.6	25	32	3130	0.387	0.494	0.076	0.5	0.45	1.8
	112600400070	70	1.1	2	30	37.7	4500	0.268	0.3412	0.075	0.349	0.48	1.2
	112600400095	95	1.1	2	33	41.7	5600	0.193	0.2471	0.074	0.258	0.55	1.1
	112600400120	120	1.2	2.5	38	47.1	7400	0.153	0.1964	0.072	0.209	0.55	0.76
	112600400150	150	1.4	2.5	42	51.4	8780	0.124	0.1597	0.073	0.176	0.55	0.68
	112600400185	185	1.6	2.5	46	56.6	10630	0.0991	0.1284	0.073	0.148	0.55	0.61
	112600400240	240	1.7	2.5	53	63	13390	0.0754	0.0989	0.072	0.122	0.58	0.54
	112600400300	300	1.8	2.5	58	68.8	16290	0.0601	0.0801	0.072	0.107	0.62	0.49
	112600400400	400	2	3.15	65	78.1	19800	0.047	0.0641	0.071	0.096	0.63	0.35
Five Core Steel Wire Armour	112600501105	1.5	0.6	0.9	9.7	14.3	410	12.1	15.428	0.104	15.428	0.23	8.2
	112600501205	2.5	0.7	0.9	11.7	16.3	470	7.41	9.448	0.101	9.449	0.25	6.8
	112600500004	4	0.7	0.9	13	17.8	710	4.61	5.878	0.099	5.879	0.27	6.2
	112600500006	6	0.7	1.25	14.5	20	876	3.08	3.927	0.094	3.928	0.3	3.9
	112600500010	10	0.7	1.25	17.2	22.9	1165	1.83	2.333	0.093	2.336	0.32	3.4
	112600500016	16	0.7	1.6	20	26.6	1742	1.15	1.466	0.088	1.469	0.35	2.2
	112600500025	25	0.9	1.6	24.7	31.5	2323	0.727	0.926	0.082	0.93	0.37	1.8
	112600500035	35	0.9	1.6	27.8	34.8	2932	0.524	0.6685	0.077	0.673	0.42	1.6
	112600500050	50	1	2	32.4	40.4	4192	0.387	0.494	0.076	0.5	0.45	1.1
	112600500070	70	1.1	2	37.9	46.3	5336	0.268	0.3412	0.075	0.349	0.48	0.9

For current rating & voltage drop refer table no. 17-1 and 17-2

MULTICORE CONTROL CABLE STANDARD: BS 5467

Application

Industrial wiring for remote control and telemetry circuits etc. Can be laid direct in the ground, or in ducts, clipped to surface, on trays or in free air. May be embedded in concrete.

Technical Data

Voltage Rating : 600 / 1000V

Cable Construction

Multicore Cables : Stranded plain copper conductors, XLPE insulated, cores laid up, extruded PVC bedding, galvanised steel wire armoured and PVC sheathed

Core Colours : White with black numerals

Sheath Colour : Black. (Other Colour As per customer requirement)

Minimum Bending Radius : 12 x Cable Diameter

Maximum Conductor Temperature : 90°C

Note: Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conduct or operating temperature (see regulation 512 - 1 - 2 of BS 7671, the 17th Edition of IEE Wiring Regulations).

BASEC Certified up to and including 48 x 4 Sq. mm.

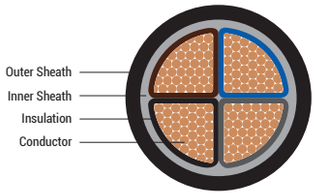
Cable Construction

Part Number	Number of Cores	Nominal Cross Sectional Area (Sq. mm)	Approx. Diameter Under Armour (mm)	Approx. Diameter Over Armour (mm)	Approx. Overall Diameter (mm)	Approx. Net Weight (kg/km)
112600701105	7	1.5	10.2	12.1	15.2	470
112600701205	7	2.5	12.3	14	17.1	600
112600700004	7	4	14	17	19.7	890
112601201105	12	1.5	13.7	16	19.4	780
112601201205	12	2.5	16.3	19	22.4	1000
112601200004	12	4	19.1	22	25.7	1410
112601901105	19	1.5	16.2	19	22.2	1000
112601901205	19	2.5	19.9	23	26.6	1540
112601900004	19	4	22.5	26	29.3	1830
112602701105	27	1.5	20	23.2	26.7	1500
112602701205	27	2.5	24	27.2	30.7	1950
112602700004	27	4	27.5	30.7	34.4	2500
112603701105	37	1.5	22.3	25.5	29	1800
112603701205	37	2.5	26.9	30.1	33.8	2350
112603700004	37	4	31	35	39.2	3100
112604801105	48	1.5	25.4	28.6	32.7	2050
112604801205	48	2.5	31	35	39.3	3100
112604800004	48	4	35.3	39.3	44.1	4100

For current rating & voltage drop refer table no. 17-3 and 17-4

EXVB

REACH I RoHS I CE I CPR Compliant



Application

EXVB is a power distribution cable suitable for low voltage applications in power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants where heavier current and thermal loads are expected.
This cable is mainly suitable for fixed installations in ground, canals, concrete and in areas free from heavy mechanical stress.

Standard

HD 603 Part 5/ Sect.A & IEC 60502-1

Technical Data

Nominal Voltage : U_0 / U 0.6/1.0 kV
Temperature Range : -5°C to 90°C
Minimum Bending Radius : 12 x D

Cable Construction

Conductor : Plain Copper conductor RE,RM,SM (Class-1 & Class-2)
Insulation : Crosslinked polyethylene (XLPE)
Core colours
3C - brown, black & grey
4C - blue, brown, black, grey
Inner sheath : Special Bedding Compound
Outer sheath : Special PVC outer sheath
Sheath Colour : Black

*Water proof variant of this cable, EXeVB is also available with special water blocking tape.

Properties

Self-extinguishing and flame retardant according to IEC 60332-1-2.

Cable Design Parameters

Part Number	No. of Cores and Nominal Cross Sectional Area (Sq. mm)	Nominal Insulation Thickness (mm)	Nominal Bedding Thickness (mm)	Nominal Outer Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)
112701010091	3 x 1.5	0.7	1	1.8	12.0	209
112701020091	3 x 1.5	0.7	1	1.8	12.0	199
112701030091	3 x 2.5	0.7	1	1.8	13.0	257
112701040091	3 x 2.5	0.7	1	1.8	12.0	244
112701050091	3 x 4	0.7	1	1.8	14.0	326
112701060091	3 x 4	0.7	1	1.8	13.0	307
112701070091	3 x 6	0.7	1	1.8	14.0	385
112701080091	3 x 10	0.7	1	1.8	16.0	533
112701090091	3 x 10	0.7	1	1.8	16.0	531
112701100091	4 x 1.5	0.7	1	1.8	13.0	241

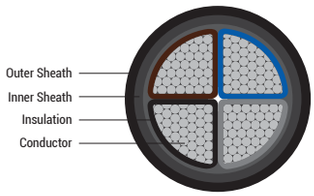
Part Number	No. of Cores and Nominal Cross Sectional Area (Sq. mm)	Nominal Insulation Thickness (mm)	Nominal Bedding Thickness (mm)	Nominal Outer Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)
112701110091	4 x 1.5	0.7	1	1.8	12.0	229
112701120091	4 x 2.5	0.7	1	1.8	14.0	301
112701130091	4 x 2.5	0.7	1	1.8	13.0	285
112701140091	4 x 4	0.7	1	1.8	14.0	365
112701150091	4 x 6	0.7	1	1.8	16.0	492
112701160091	4 x 6	0.7	1	1.8	15.0	463
112701170091	4 x 10	0.7	1	1.8	18.0	679
112701180091	4 x 10	0.7	1	1.8	17.0	648
112701190091	4 x 16	0.7	1	1.8	20.0	855
112701200091	4 x 25	0.9	1	1.8	23.0	1265
112701210091	4 x 35	0.9	1	1.8	26.0	1653
112701220091	4 x 50	1	1	1.87	29.0	2168
112701230091	4 x 70	1.1	1.2	2.03	34.0	3066
112701240091	4 x 95	1.1	1.2	2.17	38.0	4111
112701250091	4 x 120	1.2	1.2	2.3	42.0	5109
112701260091	4 x 240	1.7	1.6	2.84	58.0	10193

Current Carrying Capacity

Nominal Cross Sectional Area (Sq. mm)	Current Carrying Capacity (Amp.)	
	In Ground at 30°C	In Air at 40°C
1.5	28	24
2.5	35	33
4	44	39
6	55	50
10	74	67
16	94	85
95	120	125
120	145	155
150	170	190
185	210	235
240	250	290

EAXVB

REACH I RoHS I CE I CPR Compliant



Application

EAXVB is a power distribution cable with aluminium conductor suitable for low voltage applications in power plants, transformer stations, industrial plants, metropolitan networks and in other electric plants where heavier current and thermal loads are expected. This cable is mainly suitable for fixed installations in ground, canals, concrete and in areas free from heavy mechanical stress.

Standard

HD 603 Part 5/ Sect.A & IEC 60502-1

Technical Data

Nominal Voltage : U0 / U 0.6/1.0 kV
Temperature Range : -5°C to 90°C
Minimum Bending Radius : 12 x D

Cable Construction

Conductor : Aluminium conductor SM (Class-2)
Insulation : Crosslinked polyethylene (XLPE)
Core colours : blue, brown, black, grey
Inner sheath : Special Bedding Compound
Outer sheath : Special PVC outer sheath
Sheath Colour : Black

*Water proof variant of this cable, EAXeVB is also available with special water blocking tape.

Properties

Self-extinguishing and flame retardant according to IEC 60332-1-2.

Cable Design Parameters

Part Number	No. of Cores and Nominal Cross Sectional Area (Sq. mm)	Nominal Insulation Thickness (mm)	Nominal Bedding Thickness (mm)	Nominal Outer Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)
112801010091	4 x 25	0.9	1	1.8	24	695
112801020091	4 x 35	0.9	1	1.8	26	852
112801030091	4 x 50	1	1	1.9	29	1076
112801040091	4 x 70	1	1.2	2	34	1454
112801050091	4 x 95	1.1	1.2	2.2	38	1892
112801060091	4 x 120	1.2	1.4	2.3	43	2359
112801070091	4 x 150	1.4	1.4	2.5	47	2844
112801080091	4 x 185	1.6	1.4	2.6	52	3488
112801090091	4 x 240	1.7	1.6	2.9	59	4457

Current Carrying Capacity

Nominal Cross Sectional Area (Sq. mm)	Current Carrying Capacity (Amp.)	
	In Ground at 30°C	In Air at 40°C
25	95	99
35	116	117
50	140	140
70	170	176
95	200	221
120	225	258
150	255	294
185	285	339
240	325	402