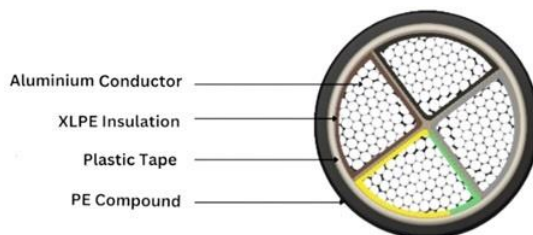


**SPECIAL CABLES****AXMK/ AXPk - PE 0.6/1 (1.2) kV****Power Cable with Aluminium Conductor, XLPE Insulation & PE Sheathed**

APPLICATION: Used generally in power transmission and distribution systems for industrial, commercial, institutional and residential purposes. Typically have fixed installations in indoors and outdoors in dry & wet conditions. Installation is done on ground, concrete directly or through cable ducts, support brackets etc.

STANDARDS: HD 603 S1 Part 5D

CONSTRUCTION:

- **Conductor:** Annealed Aluminium as per IEC 60228 Class 2
 - 16 mm² Circular Compacted
 - 25 mm² Sector shaped/ Circular Compacted
 - 35 mm² & above Circular compacted (for single core)/ Sector shaped (For multi core)
- **Insulation:** XLPE Compound
- **Separator:** Plastic tape
- **Outer Sheath:** PE Compound

Technical Data:			
Rated voltage, Frequency	0.6/1 (1,2) kV, 50 Hz	Packaging	Wooden drums
Test voltage	4 kV rms for 5 minutes	Min. bending radius	12 X OD
Max. conductor temperature	+90°C	CPR Class	Fca
Max. short-circuit temperature	+250°C	UV resistance	Yes
Min. temperature for laying	-15°C	Colour of insulated cores	1 Core- Black 3 Core – Green/Yellow, Brown, Blue or Grey Brown, Black 4 Core – Green/Yellow, Brown, Black, Grey or Blue Brown, Black, Grey 5 Core – Green/ Yellow, Blue, Brown, Black, Grey
Min. storage temperature	-30 °C	Colour of sheath	Black
Ambient working temperature	-35 °C to + 50°C	Marking on cable	SPECIAL CABLES, INDIA (N X S MM2) 0.6/1 kV AXMK-PE HD 603 S1 CE MM-YY meter marking

Note:	
CPR Class	Eca (can be provided on request)
Ploughing Instructions	Can be provided on request
Anti termite & Anti-rodent resistance	Can be provided on request

**Manufactured by:****SPECIAL CABLES PVT. LTD.**

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TECHNICAL DATA

Nominal Conductor Area	Conductor Shape*	Insulation Thickness (Nom.)	Outer Sheath Thickness (Nom.)	Overall Diameter	Cable Net Weight	Max. Drum Length (±3% Tolerance)	Max. D.C Resistance of Conductor at 20 °C	Short Circuit for 1 Sec.	Current Carrying Capacity for max. conductor temperature**	
				(Approx.)	(Approx.)					
mm ²		mm.	mm.	mm.	kg/km	m	Ω/km	kA (rms)	In Ground	In Air

1 CORE

1 x 16	RE/RM	0.7	1.4	9	90	3000	1.91	1.51	91	92
1 x 25	RE/RM	0.9	1.4	11	120	3000	1.2	2.36	117	123
1 x 35	RM	0.9	1.4	12	150	3000	0.868	3.31	140	151
1 x 50	RM	1	1.4	14	200	3000	0.641	4.72	164	182
1 x 70	RM	1.1	1.4	15	270	3000	0.443	6.61	202	230
1 x 95	RM	1.1	1.45	17	350	3000	0.32	8.98	248	290
1 x 120	RM	1.2	1.5	19	430	3000	0.253	11.34	282	339
1 x 150	RM	1.4	1.6	21	540	2500	0.206	14.17	314	385
1 x 185	RM	1.6	1.65	23	670	2000	0.164	17.48	356	447
1 x 240	RM	1.7	1.8	26	860	1500	0.125	22.68	412	528
1 x 300	RM	1.8	1.8	29	1050	1500	0.1	28.35	463	606
1 x 400	RM	2	1.9	32	1330	1000	0.0778	37.8	528	712
1 x 500	RM	2.2	2	35	1690	1000	0.0605	47.25	600	826
1 x 630	RM	2.4	2.2	39	2150	1000	0.0469	59.53	676	955
1 x 800	RM	2.6	2.3	44	2720	500	0.0367	75.6	755	1091
1 x 1000	RM	2.8	2.4	49	3380	500	0.0291	94.5	828	1229

3 CORES

3 x 10	RE/RM	0.7	1.8	15	200	2000	3.08	0.945	58	59
3 x 16	RE/RM	0.7	1.8	18	270	2000	1.91	1.51	75	76
3 x 25	SM	0.9	1.8	19	370	2000	1.2	2.36	97	102
3 x 35	SM	0.9	1.8	21	470	2000	0.868	3.31	116	125
3 x 50	SM	1	1.8	24	600	1000	0.641	4.72	137	152
3 x 70	SM	1.1	1.9	27	830	1000	0.443	6.61	167	193
3 x 95	SM	1.1	2	31	1080	1000	0.32	8.98	201	238
3 x 120	SM	1.2	2.1	33	1330	1000	0.253	11.34	227	274
3 x 150	SM	1.4	2.3	38	1660	1000	0.206	14.17	254	312
3 x 185	SM	1.6	2.4	43	2070	1000	0.164	17.48	288	362
3 x 240	SM	1.7	2.6	48	2650	500	0.125	22.68	334	431
3 x 300	SM	1.8	2.8	52	3250	500	0.1	28.35	376	497

4 CORES

4 x 10	RE/RM	0.7	1.8	17	260	2000	3.08	0.945	58	59
4 x 16	RE/RM	0.7	1.8	19	420	2000	1.91	1.51	75	76
4 x 25	SM	0.9	1.8	21	560	2000	1.2	2.36	97	102
4 x 35	SM	0.9	1.8	23	710	1000	0.868	3.31	116	125
4 x 50	SM	1	1.8	26	890	1000	0.641	4.72	137	152
4 x 70	SM	1.1	1.9	30	1200	1000	0.443	6.61	167	193
4 x 95	SM	1.1	2	34	1570	1000	0.32	8.98	201	238
4 x 120	SM	1.2	2.1	37	1920	1000	0.253	11.34	227	274
4 x 150	SM	1.4	2.3	42	2400	1000	0.206	14.17	254	312
4 x 185	SM	1.6	2.5	48	3010	500	0.164	17.48	288	362
4 x 240	SM	1.7	2.7	53	3830	500	0.125	22.68	334	431
4 x 300	SM	1.8	3	58	4650	500	0.1	28.35	376	497

5 CORES

5 x 10	RE/RM	0.7	1.8	18	310	2000	3.08	0.945	58	59
5 x 16	RE/RM	0.7	1.8	21	420	2000	1.91	1.51	75	76
5 x 25	SM/RM	0.9	1.8	23	590	1000	1.2	2.36	97	102
5 x 35	SM	0.9	1.8	26	750	1000	0.868	3.31	116	125
5 x 50	SM	1	2	29	990	1000	0.641	4.72	137	152
5 x 70	SM	1.1	2.1	33	1350	1000	0.443	6.61	167	193
5 x 95	SM	1.1	2.3	38	1790	1000	0.32	8.98	201	238
5 x 120	SM	1.2	2.4	41	2200	1000	0.253	11.34	227	274
5 x 150	SM	1.4	2.6	47	2740	1000	0.206	14.17	254	312
5 x 185	SM	1.6	2.8	53	3440	500	0.164	17.48	288	362
5 x 240	SM	1.7	3	59	4380	500	0.125	22.68	334	431

Note: * RE – Round Solid, RM – Round Multiwire, SM – Sector Multiwire

** Considering air temperature @ 30°C, ground temperature @ 20°C with thermal resistivity 1.5 Km/W Amps & depth of burial 0.7m

The data was prepared for informational purposes & subject to change without prior information.



SPECIAL CABLES PVT. LTD.