METSEC
CABLES LIMITED

XLPE POWER CABLE(N2XH) FRNC 0.6/1kV

APPLICATION

Multi-core PVC cable with steel wire armour (SWA). Power and auxiliary fixed wiring cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Temperature Rating
Fixed: -25°C to +90°C

Minimum Bending Radius
1.5mm^2 to 16mm^2 - Fixed: 6 x overall diameter
25mm^2 and above - Fixed: 8 x overall diameter

CONSTRUCTION

Conductor
Class 2 stranded copper conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Bedding
PVC (Polyvinyl Chloride)

Armour
SWA (Steel Wire Armour)

Sheath
PVC (Polyvinyl Chloride)

CABLE THIRD-PARTY ACCREDITATIONS

Cables are tested and accredited by Kenya Bureau and Standards (KEBS)

STANDARDS

BS IEC/EN 60502-1, IEC/EN 60228
Flame Retardant according to IEC/EN 60332-1-2

CORE IDENTIFICATION

1 core: Brown Blue
2 core: Brown Blue
3 core: Brown Black Grey
4 core: Brown Black Blue Grey
5 core and above: Brown Black Blue Grey Green/yellow

Sheath Colour
● Black

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DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm2	CONDUCTOR TYPE	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
1	1.5	RE	0.7	7	60
1	2.5	RE	0.7	8	75
1	4	RE	0.7	9	90
1	6	RE	0.7	10	115
1	10	RE	0.7	11	165
1	16	RE	0.7	8.6	230
1	25	RM	0.9	11.1	340
1	35	RM	0.9	12	440
1	50	RM	1	12.5	570
1	70	RM	1.1	15	795
1	95	RM	1.1	17	1055
1	120	RM	1.3	17.65	1315
1	150	RM	1.4	21	1600
1	185	RM	1.6	23	1975
1	240	RM	1.7	24.4	2525
1	300	RM	1.8	26	3150
2	1.5	RE	0.7	12	125
2	2.5	RE	0.7	12.1	155
2	4	RE	0.7	13	195
2	6	RE	0.7	14	295
2	10	RE	0.7	16	390
2	16	RE	0.7	16.2	560
2	25	RM	0.9	19	850
2	35	RM	0.9	21.4	1010
2	50	RM	1	24.8	1364
2	70	RM	1.1	28.9	1924
2	95	RM	1.1	32.9	2578
2	120	RM	1.3	37.7	3307
2	150	RM	1.4	40.9	4005
2	185	RM	1.6	45.3	4964
2	240	RM	1.7	52.1	6503
2	300	RM	1.8	58.3	8219
3	1.5	RE	0.7	12	145
3	2.5	RE	0.7	13	180
3	4	RE	0.7	14	235
3	6	RE	0.7	15	325
3	10	RE	0.7	15.4	485
3	16	RE	0.7	17.1	705
3	25	RM	0.9	20.5	1080
3	35	SM	0.9	22.8	1425
3	50	SM	1	26.5	1840
3	70	SM	1.1	30.1	2540
3	95	SM	1.1	34.1	3430
3	120	SM	1.3	39.1	4440
3	150	SM	1.4	42.2	5380
3	185	SM	1.6	46.7	6920
3	240	SM	1.7	53.5	8420
3	300	SM	1.8	62.7	10927
3	400	SM	2	69.9	13709
3 + E	16-Oct	RE	0.7	18.5	779
3 + E	25/16	RM	0.9	22.1	1175

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3 + E	35/16	SM	0.9	24.3	1480
3 + E	50/25	SM	1	28.2	2031
3 + E	70/35	SM	1.1	32.1	2813
NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm2	CONDUCTOR TYPE	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
3 + E	95/50	SM	1.1	36.4	3772
3 + E	120/70	SM	1.3	41.4	4858
3 + E	150/70	SM	1.4	44.2	5680
3 + E	185/95	SM	1.6	48.4	7082
3 + E	240/120	SM	1.7	56.5	9363
3 + E	300/150	SM	1.9	63.3	11939
4	1.5	RE	0.7	12	170
4	2.5	RE	0.7	13	215
4	4	RE	0.7	14.5	290
4	6	RE	0.7	16	390
4	10	RE	0.7	18.5	600
4	16	RE	0.7	21	870
4	25	RM	0.9	25.5	1365
4	35	SM	0.9	28.5	1875
4	50	SM	1	31.1	2550
4	70	SM	1.1	36.2	3010
4	95	SM	1.1	40.6	3960
4	120	SM	1.3	45.4	5160
4	150	SM	1.4	49.5	6150
4	185	SM	1.6	54.4	7780
4	240	SM	1.7	61.5	9550
5	1.5	RE	0.7	13	195
5	2.5	RE	0.7	14.5	255
5	4	RE	0.7	16	345
5	6	RE	0.7	17.5	475
5	10	RE	0.7	20	735
5	16	RE	0.7	23	1070
5	25	RM	0.9	25.6	1605
5	35	RM	0.9	28.7	2139
5	50	RM	1	33	2870
5	70	RM	1.1	38.2	4054
5	95	RM	1.1	43	5415
5	120	RM	1.3	50	7039
5	150	RM	1.4	53.2	8447

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ELECTRICAL CHARACTERISTICS XLPE/PVC/SWA/PVC

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm2	NO. OF CORES Amps										
	1		2		3 and 4		7	10	12 and 14	19	24
	In Ground	In Air	In Ground	In Air	In Ground	In Air	In Air	In Air	In Air	In Air	In Air
1.5	31	24	37	26	31	23	18	16	14	13	12
2.5	41	33	48	36	41	31	23	22	20	18	16
4	59	45	63	49	53	42	-	-	-	-	-
6	101	58	80	63	66	54	-	-	-	-	-
10	128	80	104	86	87	75	-	-	-	-	-
16	144	107	136	115	113	100	-	-	-	-	-
25	174	138	173	149	144	127	-	-	-	-	-
35	206	169	-	-	174	158	-	-	-	-	-
50	254	207	-	-	206	192	-	-	-	-	-
70	301	268	-	-	254	246	-	-	-	-	-
95	343	328	-	-	301	298	-	-	-	-	-
120	387	382	-	-	343	346	-	-	-	-	-
150	434	441	-	-	387	395	-	-	-	-	-
185	501	506	-	-	434	450	-	-	-	-	-
240	565	599	-	-	501	538	-	-	-	-	-
300	565	693	-	-	-	-	-	-	-	-	-
400	749	811	-	-	-	-	-	-	-	-	-
500	843	940	-	-	-	-	-	-	-	-	-

Air ambient temperature:30^{O}C

Ground ambient temperature: 20^{O}C

Conductor operating temperature: 90^{O}C

Depth of duct: 0.7m

Soil thermal resistivity: 1km/W

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