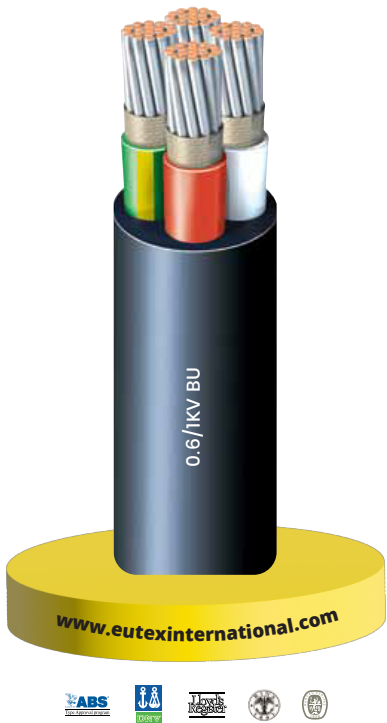


BU Low Voltage Power & Lighting Cable (0.6/1kV) Fire Resistant



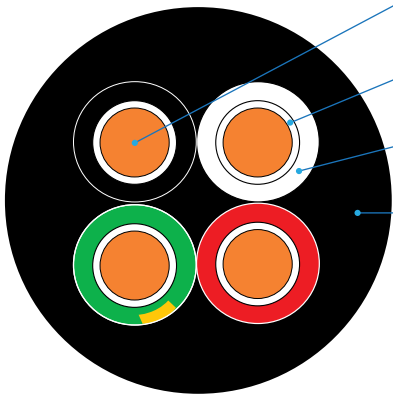
CABLE DESIGNATION (P110)

0.6/1kV BU

APPLICATION STANDARD

Design guide	NEK-606 & IEC 60092-353
Flame retardant	IEC 60332-1 & IEC 60332-3 Category A
Fire resistance	IEC 60331-21(90min) IEC 60331-1,-2(120min)
Halogen content	IEC 60754-1, 0.5%↓
Cold bend / impact	CSA C22.2 No. 2556 or IEC 60092-350 Annex.E Method 1 (-40°C/-35°C)
Mud / Oil resistant	NEK 606 (Category a,b,c,d)
Smoke light transmittance	IEC 61034, 60%↑
Sunlight (UV) resistant	UL 1581

CONSTRUCTION



Sectional view

Conductor

Stranded tinned annealed copper wires as per IEC 60228, Class 2

Fire resisting layer

Mica/glass tape

Insulation

EPR as per IEC 60092-360

Sheath

- SHF2 as per IEC 60092-360
- **Option** : NEK 606 Category a,b,c,d Mud or oil resistant
- Outer sheath color : Black

Cabling

- Insulated cores shall be cabled
- Flame retardant & non-hygroscopic fillers may be used
- Suitable tape(s) may be applied on the cabled core
- A Filler may be applied to obtain a circular Cable

Core identification

No. of cores	Without Earth core	With Earth core
1C	Off-white or Black	
2C	Off-white, Black	
3C / 2C + E	Off-white, Black, Red	Off-white, Black, G/Y
4C / 3C + E	Off-white, Black, Red, Blue	Off-white, Black, Red, G/Y
5C / 4C + E	Black No. on white insulation	Off-white, Black, Red, Blue, G/Y
6C and over	Black No. on white insulation	Black No. on white insulation, G/Y

Note. 1. Flexible cable (Class5 Conductor) can be supplied
2. Earth core(G/Y) : Yellow/Green(Green base color with yellow stripe)

BU Low Voltage Power & Lighting Cable (0.6/1kV) Fire Resistant

0.6/1kV BU

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Tolerance				
No.	mm ²	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
1	1.5	7	1.7	1.0	1.0	6.3	0.6	12.2	1,320	3,500	60
	2.5	7	2.2	1.0	1.0	6.7	0.6	7.56	1,110	3,500	80
	4	7	2.7	1.0	1.0	7.2	0.6	4.70	940	3,500	100
	6	7	3.3	1.0	1.0	7.8	0.6	3.110	800	3,500	120
	10	7	4.2	1.0	1.1	8.9	0.7	1.840	650	3,500	170
	16	7	5.3	1.0	1.1	9.9	0.7	1.160	540	3,500	240
	25	7	6.6	1.2	1.2	11.8	0.8	0.734	520	3,500	350
	35	7	7.9	1.2	1.2	12.9	0.8	0.529	450	3,500	460
	50	19	9.1	1.4	1.3	14.9	0.9	0.391	440	3,500	610
	70	19	11.0	1.4	1.4	16.8	1.0	0.270	380	3,500	830
	95	19	12.9	1.6	1.4	19.1	1.1	0.195	370	3,500	1,110
	120	37	14.5	1.6	1.5	20.9	1.1	0.154	330	3,500	1,370
	150	37	16.2	1.8	1.6	22.9	1.2	0.126	330	3,500	1,660
	185	37	18.0	2.0	1.7	25.4	1.3	0.100	330	3,500	2,080
	240	61	20.6	2.2	1.8	28.6	1.4	0.0762	320	3,500	2,690
2	300	61	23.1	2.4	1.9	31.8	1.6	0.0607	310	3,500	3,350
	400	61	26.1	2.6	2.1	36.4	1.8	0.0475	290	3,500	4,530
	500	61	29.2	2.8	2.2	39.7	1.9	0.0369	280	3,500	5,460
	630	91	33.2	2.8	2.4	44.3	2.1	0.0286	250	3,500	7,030
	1.5	7	1.7	1.0	1.1	10.6	0.7	12.2	1,320	3,500	170
	2.5	7	2.2	1.0	1.2	11.6	0.8	7.56	1,110	3,500	210
	4	7	2.7	1.0	1.2	12.6	0.8	4.70	940	3,500	260
	6	7	3.3	1.0	1.2	13.8	0.9	3.110	800	3,500	330
	10	7	4.2	1.0	1.3	15.8	0.9	1.840	650	3,500	430
	16	7	5.3	1.0	1.4	18.0	1.0	1.160	540	3,500	590
	25	7	6.6	1.2	1.5	21.6	1.2	0.734	520	3,500	870
	35	7	7.9	1.2	1.6	24.0	1.3	0.529	450	3,500	1,120
	50	19	9.1	1.4	1.8	28.0	1.4	0.391	440	3,500	1,510
	70	19	11.0	1.4	1.9	31.8	1.6	0.270	380	3,500	2,050
	95	19	12.9	1.6	2.1	36.8	1.8	0.195	370	3,500	2,770
	120	37	14.5	1.6	2.2	40.2	1.9	0.154	330	3,500	3,370
2C+E	150	37	16.2	1.8	2.4	44.2	2.1	0.126	330	3,500	4,090
	185	37	18.0	2.0	2.5	49.0	2.3	0.100	330	3,500	5,070
	240	61	20.6	2.2	2.8	55.6	2.5	0.0762	320	3,500	6,580
	300	61	23.1	2.4	3.0	61.6	2.8	0.0607	310	3,500	8,130
	1.5	7	1.7	1.0	1.2	11.4	0.8	12.2	1,320	3,500	200
	2.5	7	2.2	1.0	1.2	12.3	0.8	7.56	1,110	3,500	250
	4	7	2.7	1.0	1.2	13.4	0.8	4.70	940	3,500	310
	6	7	3.3	1.0	1.3	14.9	0.9	3.110	800	3,500	410
	10	7	4.2	1.0	1.4	17.0	1.0	1.840	650	3,500	560
	16	7	5.3	1.0	1.4	19.2	1.1	1.160	540	3,500	770
	25	7	6.6	1.2	1.6	22.6	1.2	0.734	520	3,500	1,060
	Earth	16	7	5.3	1.0			1.160			
	2C	35	7	7.9	1.2	25.4	1.3	0.529	450	3,500	1,420
	Earth	25	7	6.6	1.2			0.734			
	2C	50	19	9.1	1.4	29.0	1.5	0.391	440	3,500	1,800
	Earth	25	7	6.6	1.2			0.734			
2C	70	19	11.0	1.4	1.9	32.6	1.6	0.270	380	3,500	2,400
	Earth	35	7	7.9	1.2			0.529			
	2C	95	19	12.9	1.6	37.8	1.8	0.195	370	3,500	3,250
	Earth	50	19	9.1	1.4			0.391			
	2C	120	37	14.5	1.6	41.7	2.0	0.154	330	3,500	4,080
	Earth	70	19	11.0	1.4			0.270			
	2C	150	37	16.2	1.8	46.0	2.1	0.126	330	3,500	5,040
	Earth	95	19	12.9	1.6			0.195			
	2C	185	37	18.0	2.0	50.4	2.3	0.100	330	3,500	6,020
	Earth	95	19	12.9	1.6			0.195			
	2C	240	61	20.6	2.2	56.8	2.6	0.0762	320	3,500	7,720
	Earth	120	37	14.5	1.6			0.154			

BU Low Voltage Power & Lighting Cable (0.6/1kV) Fire Resistant

0.6/1kV BU

NEK-606, IEC 60092-350, 353, 354, 376

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Tolerance				
No.	mm ²	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
3	1.5	7	1.7	1.0	1.2	11.4	0.8	12.2	1,320	3,500	200
	2.5	7	2.2	1.0	1.2	12.3	0.8	7.56	1,110	3,500	250
	4	7	2.7	1.0	1.2	13.4	0.8	4.70	940	3,500	310
	6	7	3.3	1.0	1.3	14.9	0.9	3.110	800	3,500	410
	10	7	4.2	1.0	1.4	17.0	1.0	1.840	650	3,500	560
	16	7	5.3	1.0	1.4	19.2	1.1	1.160	540	3,500	770
	25	7	6.6	1.2	1.6	23.2	1.2	0.734	520	3,500	1,160
	35	7	7.9	1.2	1.7	25.8	1.3	0.529	450	3,500	1,510
	50	19	9.1	1.4	1.8	30.1	1.5	0.391	440	3,500	2,040
	70	19	11.0	1.4	2.0	34.1	1.7	0.270	380	3,500	2,770
	95	19	12.9	1.6	2.2	39.5	1.9	0.195	370	3,500	3,760
	120	37	14.5	1.6	2.3	43.1	2.0	0.154	330	3,500	4,600
	150	37	16.2	1.8	2.5	47.4	2.2	0.126	330	3,500	5,580
	185	37	18.0	2.0	2.7	52.8	2.4	0.100	330	3,500	6,970
3C+E	240	61	20.6	2.2	2.9	59.6	2.7	0.0762	320	3,500	9,010
	300	61	23.1	2.4	3.2	66.3	3.0	0.0607	310	3,500	11,190
	3C+E	1.5	7	1.7	1.0	12.5	0.8	12.2	1,320	3,500	240
	3C+E	2.5	7	2.2	1.0	13.5	0.8	7.56	1,110	3,500	300
	3C+E	4	7	2.7	1.0	14.9	0.9	4.70	940	3,500	390
	3C+E	6	7	3.3	1.0	16.3	1.0	3.110	800	3,500	500
	3C+E	10	7	4.2	1.0	18.7	1.0	1.840	650	3,500	710
	3C+E	16	7	5.3	1.0	21.3	1.2	1.160	540	3,500	990
	3C	25	7	6.6	1.2	25.3	1.3	0.734	520	3,500	1,400
	Earth	16	7	5.3	1.0			1.160			
	3C	35	7	7.9	1.2	28.3	1.4	0.529	450	3,500	1,850
	Earth	25	7	6.6	1.2			0.734			
	3C	50	19	9.1	1.4	32.4	1.6	0.391	440	3,500	2,390
	Earth	25	7	6.6	1.2			0.734			
	3C	70	19	11.0	1.4	36.7	1.8	0.270	380	3,500	3,230
	Earth	35	7	7.9	1.2			0.529			
	3C	95	19	12.9	1.6	42.5	2.0	0.195	370	3,500	4,370
	Earth	50	19	9.1	1.4			0.391			
	3C	120	37	14.5	1.6	46.8	2.2	0.154	330	3,500	5,460
	Earth	70	19	11.0	1.4			0.270			
	3C	150	37	16.2	1.8	51.5	2.4	0.126	330	3,500	6,710
	Earth	95	19	12.9	1.6			0.195			
	3C	185	37	18.0	2.0	56.7	2.6	0.100	330	3,500	8,110
	Earth	95	19	12.9	1.6			0.195			
	3C	240	61	20.6	2.2	64.0	2.9	0.0762	320	3,500	10,460
	Earth	120	37	14.5	1.6			0.154			
4	1.5	7	1.7	1.0	1.2	12.5	0.8	12.2	1,320	3,500	240
	2.5	7	2.2	1.0	1.2	13.5	0.8	7.56	1,110	3,500	300
	4	7	2.7	1.0	1.3	14.9	0.9	4.70	940	3,500	390
	6	7	3.3	1.0	1.3	16.3	1.0	3.110	800	3,500	500
	10	7	4.2	1.0	1.4	18.7	1.0	1.840	650	3,500	710
	16	7	5.3	1.0	1.5	21.3	1.2	1.160	540	3,500	990
	25	7	6.6	1.2	1.7	25.8	1.3	0.734	520	3,500	1,500
	35	7	7.9	1.2	1.8	28.7	1.4	0.529	450	3,500	1,950
	50	19	9.1	1.4	2.0	33.6	1.6	0.391	440	3,500	2,650
	70	19	11.0	1.4	2.1	37.9	1.8	0.270	380	3,500	3,580
	95	19	12.9	1.6	2.4	44.1	2.1	0.195	370	3,500	4,890
	120	37	14.5	1.6	2.5	48.1	2.2	0.154	330	3,500	5,980
	150	37	16.2	1.8	2.7	52.9	2.4	0.126	330	3,500	7,260
	185	37	18.0	2.0	2.9	58.8	2.7	0.100	330	3,500	9,060
	240	61	20.6	2.2	3.2	66.7	3.0	0.0762	320	3,500	11,770
	300	61	23.1	2.4	3.5	74.0	3.3	0.0607	310	3,500	14,600

BU Low Voltage Power & Lighting Cable (0.6/1kV) Fire Resistant

0.6/1kV BU

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Tolerance				
No.	mm ²	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
4C+E	1.5	7	1.7	1.0	1.2	13.7	0.8	12.2	1,320	3,500	290
4C+E	2.5	7	2.2	1.0	1.3	15.0	0.9	7.56	1,110	3,500	370
4C+E	4	7	2.7	1.0	1.3	16.3	1.0	4.70	940	3,500	470
4C+E	6	7	3.3	1.0	1.4	18.1	1.0	3.110	800	3,500	620
4C+E	10	7	4.2	1.0	1.5	20.8	1.1	1.840	650	3,500	870
4C+E	16	7	5.3	1.0	1.6	23.7	1.2	1.160	540	3,500	1,230
4C	25	7	6.6	1.2	1.8	28.1	1.4	0.734	520	3,500	1,750
Earth	16	7	5.3	1.0				1.160			
4C	35	7	7.9	1.2	1.9	31.7	1.6	0.529	450	3,500	2,340
Earth	25	7	6.6	1.2				0.734			
4C	50	19	9.1	1.4	2.1	36.3	1.8	0.391	440	3,500	3,030
Earth	25	7	6.6	1.2				0.734			
4C	70	19	11.0	1.4	2.2	40.9	1.9	0.270	380	3,500	4,070
Earth	35	7	7.9	1.2				0.529			
4C	95	19	12.9	1.6	2.5	47.6	2.2	0.195	370	3,500	5,560
Earth	50	19	9.1	1.4				0.391			
4C	120	37	14.5	1.6	2.7	52.3	2.4	0.154	330	3,500	6,910
Earth	70	19	11.0	1.4				0.270			
4C	150	37	16.2	1.8	2.9	57.8	2.6	0.126	330	3,500	8,500
Earth	95	19	12.9	1.6				0.195			
4C	185	37	18.0	2.0	3.1	63.6	2.8	0.100	330	3,500	10,330
Earth	95	19	12.9	1.6				0.195			
4C	240	61	20.6	2.2	3.4	71.8	3.2	0.0762	320	3,500	13,340
Earth	120	37	14.5	1.6				0.154			
5	1.5	7	1.7	1.0	1.2	13.7	0.8	12.2	1,320	3,500	290
	2.5	7	2.2	1.0	1.3	15.0	0.9	7.56	1,110	3,500	370
	4	7	2.7	1.0	1.3	16.3	1.0	4.70	940	3,500	470
	6	7	3.3	1.0	1.4	18.1	1.0	3.110	800	3,500	620
	10	7	4.2	1.0	1.5	20.8	1.1	1.840	650	3,500	870
	16	7	5.3	1.0	1.6	23.7	1.2	1.160	540	3,500	1,230
	25	7	6.6	1.2	1.8	28.6	1.4	0.734	520	3,500	1,850
	35	7	7.9	1.2	1.9	32.0	1.6	0.529	450	3,500	2,430
	50	19	9.1	1.4	2.1	37.3	1.8	0.391	440	3,500	3,280
	70	19	11.0	1.4	2.3	42.3	2.0	0.270	380	3,500	4,460
	95	19	12.9	1.6	2.5	48.9	2.3	0.195	370	3,500	6,050
	120	37	14.5	1.6	2.7	53.6	2.4	0.154	330	3,500	7,440
	150	37	16.2	1.8	2.9	58.9	2.7	0.126	330	3,500	9,020
	185	37	18.0	2.0	3.2	65.7	2.9	0.100	330	3,500	11,300
	240	61	20.6	2.2	3.5	74.4	3.3	0.0762	320	3,500	14,670

BU Low Voltage Power & Lighting Cable (0.6/1kV) Fire Resistant

0.6/1kV BU

NEK-606, IEC 60092-350, 353, 354, 376

No. of Cores	Conductor			Thickness of Insulation	Thickness of sheath	Overall diameter		Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Test Voltage	Cable Weight
	Nominal Area	Min. No. of wires	Max. overall dia.			Nominal	Tolerance				
No.	mm ²	EA	mm	mm	mm	mm	±mm	Ω/km	MΩ-km	V/5min.	kg/km
2	1.0	7	1.4	1.0	1.1	10.0	0.7	18.2	1,490	3,500	120
5	1.0	7	1.4	1.0	1.2	12.9	0.8	18.2	1,490	3,500	230
7	1.0	7	1.4	1.0	1.3	14.2	0.9	18.2	1,490	3,500	300
8	1.0	7	1.4	1.0	1.3	15.4	0.9	18.2	1,490	3,500	330
9	1.0	7	1.4	1.0	1.3	16.5	1.0	18.2	1,490	3,500	370
10	1.0	7	1.4	1.0	1.4	18.2	1.0	18.2	1,490	3,500	420
12	1.0	7	1.4	1.0	1.4	18.8	1.1	18.2	1,490	3,500	480
14	1.0	7	1.4	1.0	1.5	20.0	1.1	18.2	1,490	3,500	550
16	1.0	7	1.4	1.0	1.5	21.1	1.1	18.2	1,490	3,500	610
19	1.0	7	1.4	1.0	1.6	22.4	1.2	18.2	1,490	3,500	710
24	1.0	7	1.4	1.0	1.7	26.4	1.4	18.2	1,490	3,500	900
27	1.0	7	1.4	1.0	1.7	27.0	1.4	18.2	1,490	3,500	980
30	1.0	7	1.4	1.0	1.8	28.2	1.4	18.2	1,490	3,500	1,090
37	1.0	7	1.4	1.0	1.9	30.8	1.5	18.2	1,490	3,500	1,330
44	1.0	7	1.4	1.0	2.0	34.8	1.7	18.2	1,490	3,500	1,580
2	1.5	7	1.7	1.0	1.1	10.6	0.7	12.2	1,320	3,500	170
5	1.5	7	1.7	1.0	1.2	13.7	0.8	12.2	1,320	3,500	290
7	1.5	7	1.7	1.0	1.3	15.1	0.9	12.2	1,320	3,500	350
8	1.5	7	1.7	1.0	1.3	16.4	1.0	12.2	1,320	3,500	390
9	1.5	7	1.7	1.0	1.4	17.8	1.0	12.2	1,320	3,500	450
10	1.5	7	1.7	1.0	1.5	19.6	1.1	12.2	1,320	3,500	510
12	1.5	7	1.7	1.0	1.5	20.2	1.1	12.2	1,320	3,500	580
14	1.5	7	1.7	1.0	1.5	21.3	1.2	12.2	1,320	3,500	650
16	1.5	7	1.7	1.0	1.6	22.7	1.2	12.2	1,320	3,500	740
19	1.5	7	1.7	1.0	1.6	23.9	1.3	12.2	1,320	3,500	850
24	1.5	7	1.7	1.0	1.8	28.4	1.4	12.2	1,320	3,500	1,090
27	1.5	7	1.7	1.0	1.8	29.2	1.5	12.2	1,320	3,500	1,210
30	1.5	7	1.7	1.0	1.9	30.5	1.5	12.2	1,320	3,500	1,340
37	1.5	7	1.7	1.0	1.9	32.9	1.6	12.2	1,320	3,500	1,600
44	1.5	7	1.7	1.0	2.1	37.4	1.8	12.2	1,320	3,500	1,920
2	2.5	7	2.2	1.0	1.2	11.6	0.8	7.56	1,110	3,500	210
5	2.5	7	2.2	1.0	1.3	15.0	0.9	7.56	1,110	3,500	370
7	2.5	7	2.2	1.0	1.3	16.3	1.0	7.56	1,110	3,500	440
8	2.5	7	2.2	1.0	1.4	17.9	1.0	7.56	1,110	3,500	510
9	2.5	7	2.2	1.0	1.5	19.5	1.1	7.56	1,110	3,500	580
10	2.5	7	2.2	1.0	1.5	21.2	1.1	7.56	1,110	3,500	640
12	2.5	7	2.2	1.0	1.5	21.9	1.2	7.56	1,110	3,500	730
14	2.5	7	2.2	1.0	1.6	23.3	1.2	7.56	1,110	3,500	840
16	2.5	7	2.2	1.0	1.6	24.6	1.3	7.56	1,110	3,500	940
19	2.5	7	2.2	1.0	1.7	26.1	1.3	7.56	1,110	3,500	1,100
24	2.5	7	2.2	1.0	1.9	31.2	1.5	7.56	1,110	3,500	1,430
27	2.5	7	2.2	1.0	1.9	31.9	1.6	7.56	1,110	3,500	1,570
30	2.5	7	2.2	1.0	2.0	33.3	1.6	7.56	1,110	3,500	1,730
37	2.5	7	2.2	1.0	2.1	36.1	1.7	7.56	1,110	3,500	2,090
44	2.5	7	2.2	1.0	2.2	40.8	1.9	7.56	1,110	3,500	2,480
2	4	7	2.7	1.0	1.2	12.6	0.8	4.70	940	3,500	260
5	4	7	2.7	1.0	1.3	16.3	1.0	4.70	940	3,500	470
7	4	7	2.7	1.0	1.4	18.0	1.0	4.70	940	3,500	580
8	4	7	2.7	1.0	1.5	19.7	1.1	4.70	940	3,500	670
9	4	7	2.7	1.0	1.5	21.3	1.2	4.70	940	3,500	740
10	4	7	2.7	1.0	1.6	23.4	1.2	4.70	940	3,500	840
12	4	7	2.7	1.0	1.6	24.2	1.3	4.70	940	3,500	960
14	4	7	2.7	1.0	1.7	25.7	1.3	4.70	940	3,500	1,110
16	4	7	2.7	1.0	1.7	27.1	1.4	4.70	940	3,500	1,250
19	4	7	2.7	1.0	1.8	29.0	1.5	4.70	940	3,500	1,480
24	4	7	2.7	1.0	2.0	34.4	1.7	4.70	940	3,500	1,880
27	4	7	2.7	1.0	2.0	35.2	1.7	4.70	940	3,500	2,070
30	4	7	2.7	1.0	2.1	36.7	1.8	4.70	940	3,500	2,290
37	4	7	2.7	1.0	2.2	39.8	1.9	4.70	940	3,500	2,770
44	4	7	2.7	1.0	2.4	45.2	2.1	4.70	940	3,500	3,320