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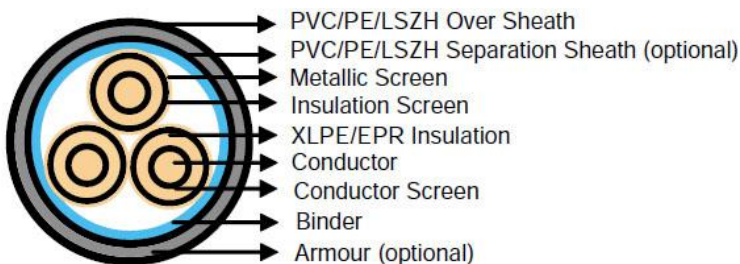
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## Three Core Medium Voltage Power Cables to BS 6622/BS 7835 IEC 60502 Cu/Al Conductor, XLPE/EPR insulation, PVC/PE/LSZH Sheath

### APPLICATIONS

The three core cables are designed for distribution of electrical power with nominal voltage  $U_0/U$  ranging from 3.6/6.6KV to 19/33KV and frequency 50Hz. They are suitable for installation mostly in power supply stations, indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries, switchboards and power stations.

### CONSTRUCTION



Conductor	Plain annealed copper or aluminium complying with IEC 60228/BS 6360. Copper conductors shall be stranded (class 2) and aluminium conductors shall be either solid or stranded (class 2).
Conductor Screen	Extruded layer of semi-conducting cross-linkable compound is applied over the conductor and shall cover the surface completely. The minimum thickness is 0.3mm and the maximum resistivity shall not exceed 500 Ohm-m at 90°C.
Insulation	Insulation is of cross-linked polyethylene compound XLPE (GP8) conforming to BS 7655-1.3 or EPR (GP7), conforming to BS 7655-1.2.

**Table 1. Insulation Thickness**

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No. Cross Section Area	Insulation Thickness at Nominal Voltage				
	3.8/6.6KV (Um=7.2KV)	6.35/11KV (Um=12KV)	8.7/15KV (Um=17.5KV)	12.7/22KV (Um=24KV)	19/33KV (Um=36KV)
mm <sup>2</sup>	mm	mm	mm	mm	mm
70 – 185	2.5	3.4	4.5	5.5	8.0
240	2.6	3.4	4.5	5.5	8.0
300	2.8	3.4	4.5	5.5	8.0
400	3.0	3.4	4.5	5.5	8.0
Above 500	3.2	3.4	4.5	5.5	8.0

Extruded layer of semi-conducting cross-linkable compound is applied over the insulation. The extruded semi-conducting layer shall consist of bonded or cold strippable semi-conducting compound capable of removal for jointing or Insulation terminating. As an option, a semi-conducting tape may be applied over the Screen extruded semi-conducting layer as a bedding for the metallic layer. The minimum thickness is 0.3 mm and the maximum resistivity is 500 Ohm-m at 90°C. The screen is tightly fitted to the insulation to exclude all air voids and can be easily hand stripped on site.

For cables with a collective metallic layer or cables with a metallic layer over Inner each individual cores with additional collective metallic layers, semi-conducting Covering inner covering and fillers shall be applied over the laid up cores. The inner & Fillers covering is made of non hygroscopic material, except if the cable is to be made longitudinally watertight. The inner covering shall be extruded or lapped.

The approximate thickness of extruded inner coverings is given in Table 2:

**Table 2. Approximate Thickness of Extruded Inner Coverings**

Fictitious Diameter over Laid Up Cores		Approx. Thickness of Extruded Inner Covering
mm		mm
>	<	



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35	45	1.0
25	35	1.2
35	45	1.4
45	60	1.6
60	80	1.8
80	-	2.0

*\*The approximate thickness of lapped inner coverings shall be 0.6mm.*

**Metallic Layer**  
 The metallic layer shall be applied over each core or applied as a collective screen. The metallic screen shall consist of either copper tapes or a concentric layer of copper wires or a combination of tapes and wires. The metallic layer provides an earth fault current path, capable of withstanding fault current to earth of 1000A for one second at maximum temperature 160°C. Copper wires are applied over the conducting water blocking layer with a minimum diameter of 0.5mm. And over the copper wires, copper tape with minimum thickness of 0.1mm can be applied helically with overlap.

Total cross section of copper wire screen is shown in table 3:

**Table 3. Minimum Total Cross Section of Copper Wire Screen & DC Resistance of The Screen**

Nominal Cross-Section Area of Cable	Minimum Cross-Section of Copper Wire Screen Area	DC Resistance of the Copper Wire Screen
mm <sup>2</sup>	mm <sup>2</sup>	mm
up to 120	16	1.06
150-300	25	0.72
400-630	35	0.51



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Separation Sheath (for armoured cable) The separation sheath comprises a layer of extruded PVC, PE or LSZH. The nominal thickness is calculated by  $0.02D_u + 0.6\text{mm}$  where  $D_u$  is the fictitious diameter under the sheath in mm. The nominal separation sheath thickness shall not be less than 1.2mm.

Armour (for armoured cable) The armour consists of galvanized steel wire applied over the inner covering with diameter specified as in Table 4.

**Table 4. Armour Wire Diameter**

Fictitious Diameter under the Armour		Armour Wire Diameter
mm		mm
>	<	
	25	1.6
25	35	2.0
35	60	2.5
60	-	3.15

Overall sheath comprises a layer of extruded either PVC type 9 conforming to BS 7665-4.2 or MDPE type TS2 conforming to BS 7655-10.1; LSZH can be offered as an option. The over sheath is normally black in colour. When a DC voltage test is to be performed on the over sheath, a semi-conducting layer such as graphite coating shall be applied over the surface of the extruded over sheath. The nominal Over Sheath over sheath thickness is calculated by  $0.035+D$  where  $D$  is the diameter immediately under the over sheath in mm. For cables with the over sheath not applied over the armour, the nominal over sheath thickness shall not be less than 1.4mm. And for cables with over sheath applied over the armour, the nominal over sheath thickness shall not be less than 1.8mm.

## PHYSICAL PROPERTIES

Operating Temperature up to 90°C



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Temperature Range            -5°C ( PVC or LSZH sheath ); -20°C ( PE sheath )

Short Circuit Temperature            250°C (short circuit duration up to 5 seconds)

Bending Radius                    15 x OD

**Table 5. Nominal /Operating /Test Voltages**

Rated Voltage U <sub>0</sub> /U	Operating Voltage (U <sub>m</sub> )	Testing Voltage (rms)
3.8/6.6KV	7.2KV	15KV
6.35/11KV	12KV	25.5KV
8.7/15KV	17.5KV	35KV
12.7/22KV	24KV	51KV
19/33KV	36KV	76KV

### Three Core 3.8/6.6KV (U<sub>m</sub>=7.2KV)

#### Dimensional Data

Nom. Cross-Section Area	Nom. Insulation Thickness	Unarmoured Cables					Steel Wire Armoured Cables						
		Copper Wire Screen Area	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight		Copper Tape Screen Area	Nom. Bedding Thickness	Nom. Armour Wire Diameter	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight	
					CU	AL						CU	AL
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	kg/km		mm <sup>2</sup>	mm	mm	mm	mm	kg/km	
25	2.5	16	2.1	37.7	2205	1740	3.4	1.2	2.0	2.2	44.5	3890	3465
35	2.5	16	2.3	41.2	2690	2010	3.6	1.2	2.5	2.3	46.8	4420	3730
50	2.5	16	2.5	44.9	3340	2350	3.8	1.3	2.5	2.5	51.5	5640	4690
70	2.5	16	2.6	48.0	4050	2730	4.3	1.3	2.5	2.6	55.0	6570	5240



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95	2.5	16	2.7	51.7	5000	3180	4.7	1.4	2.5	2.7	58.9	7760	5890
120	2.5	16	2.8	54.7	5890	3590	5.0	1.5	2.5	2.8	62.1	8810	6510
150	2.5	25	2.9	58.4	6960	4160	5.3	1.5	2.5	2.9	65.8	10110	7310
185	2.5	25	3.0	61.9	8160	4650	5.8	1.6	2.5	3.0	69.5	11520	7960
240	2.6	25	3.2	68.1	10210	5530	6.3	1.7	2.5	3.2	75.9	13920	9140
300	2.8	25	3.5	73.6	12380	6670	7.0	1.8	3.15	3.5	83.1	17400	11620
400	3.0	35	3.7	83.8	16190	8430	7.7	2.0	3.15	3.7	93.0	21900	13980

### Electrical Data

Nom. Cross-Section Area	Unarmoured Cables						Steel Wire Armoured Cables		Current Ratings						
	DC Resistance CU / AL	AC Resistance CU / AL	Short Circuit Rating of Conductor CU / AL 1 sec	Capacitance	Charging Current	Short Circuit Rating of Copper Wire Screen Per Core 1 sec	Short Circuit Rating of Copper Tape Screen Per Core 1 sec	Reactance	Inductance	Ground		Duct		Air	
										CU	AL	CU	AL	CU	AL
mm <sup>2</sup>	μΩ/m	μΩ/m	kA	pF/m	mA/m	kA	kA	μΩ/m	nH/m	A	A	A	A		
25	727/1200	927/1538	3.6/2.3	272	0.33	2.6	0.4	113	370	140	115	125	95	145	115
35	524/868	668/1113	5.0/3.2	301	0.36	2.6	0.5	108	350	170	135	150	115	175	140



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50	387/641	494/822	6.8/4.4	332	0.40	2.6	0.5	102	330	21	16	18	13	22	17
										0	0	0	5	0	0
70	268/443	343/568	9.8/6.3	383	0.46	2.6	0.6	97	310	25	19	21	16	27	21
										5	5	5	5	0	0
95	193/320	248/410	13.3/8.5	432	0.52	2.6	0.6	92	290	30	23	25	20	33	25
										0	0	5	0	0	0
120	153/253	196/325	17.2/11.0	474	0.57	2.6	0.7	89	280	34	26	29	22	37	29
										0	5	0	5	5	5
150	124/206	159/265	21.2/13.5	511	0.61	4.3	0.7	87	280	38	29	33	25	43	33
										0	5	0	5	0	0
185	99.1/164	128/211	26.6/17.0	562	0.67	4.3	0.8	86	270	43	33	37	29	49	38
										0	5	0	0	0	5
240	75.4/125	98/161	34.9/22.3	602	0.72	4.3	0.9	83	260	49	38	42	33	57	45
										0	0	5	5	0	0
300	60.1/100	80/130	43.8/28.0	622	0.75	4.3	1.0	82	260	54	43	47	37	65	51
										0	5	0	5	0	0
400	47.0/77.8	64/102	57.3/36.6	648	0.78	5.8	1.1	80	250	59	48	52	42	70	57
										0	0	0	0	0	0

**Three Core 6.35/11KV (Um=12KV)**

**Dimensional Data**

Nom. Cross-Section Area	Nom. Insulation Thickness	Unarmoured Cables					Steel Wire Armoured Cables						
		Copper Wire Screen Area	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight		Copper Tape Screen Area	Nom. Bedding Thickness	Nom. Armour Wire Diameter	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight	
					CU	AL						CU	AL
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	kg/km		mm <sup>2</sup>	mm	mm	mm	mm	kg/km	
25	3.4	16	2.3	42.8	2600	2120	3.8	1.3	2.5	2.4	50.0	4930	4400







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mm <sup>2</sup>	μΩ/m	μΩ/m	AL1 sec	pF/m	mA/m	Per Core 1	1 sec	μΩ/m	nH/m	A	A	A	
			kA			sec	kA						
25	727/1200	927/1538	3.6/2.3	216	0.43	2.6	0.5	123	390	140	1155	145	115
35	524/868	668/1113	5.0/3.2	237	0.47	2.6	0.6	115	370	170	135	150	1714
50	387/641	494/822	6.8/4.4	260	0.52	2.6	0.6	109	350	210	160	180	2217
70	268/443	343/568	9.8/6.3	298	0.60	2.6	0.7	103	330	255	195	215	2721
95	193/320	248/410	13.3/8.5	334	0.67	2.6	0.7	99	310	300	230	250	3325
120	153/253	196/325	17.2/11.0	365	0.73	2.6	0.8	96	310	340	265	295	3729
150	124/206	159/265	21.2/13.5	392	0.78	4.3	0.8	93	300	380	295	335	4333
185	99.1/164	128/211	26.6/17.0	430	0.86	4.3	0.9	90	290	430	335	370	4938
240	75.4/125	98/161	34.9/22.3	476	0.95	4.3	0.9	87	280	490	380	425	5745
300	60.1/100	80/130	43.8/28.0	524	1.05	4.3	1.0	85	270	540	435	475	6551
400	47.0/77.8	64/102	57.3/36.6	580	1.16	5.8	1.1	81	260	590	480	520	7057

### Three Core 8.7/15KV (Um=17.5KV)

#### Dimensional Data

Nom.	Unarmoured Cables	Steel Wire Armoured Cables
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Cross-Section Area	Nom. Insulation Thickness	Copper Wire Screen Area	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight		Copper Tape Screen Area	Nom. Bedding Thickness	Nom. Armour Wire Diameter	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight	
					CU	AL						CU	AL
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	kg/km		mm <sup>2</sup>	mm	mm	mm	mm	kg/km	
25	4.5	16	2.4	48.4	3000	2420	4.4	1.4	2.5	2.6	55.2	5600	5100
35	4.5	16	2.5	50.4	3450	2670	4.7	1.4	2.5	2.7	57.6	6130	5440
50	4.5	16	2.6	53.7	4140	3190	4.9	1.5	2.5	2.8	61.1	7010	6060
70	4.5	16	2.7	57.2	4980	3640	5.3	1.5	2.5	2.9	64.6	8030	6700
95	4.5	16	2.8	60.6	5900	4050	5.7	1.6	2.5	3.0	68.2	9160	7330
120	4.5	16	2.9	63.9	6870	4560	6.1	1.7	2.5	3.1	71.7	10340	8030
150	4.5	25	3.0	67.9	8030	5230	6.4	1.7	2.5	3.2	75.4	11730	8930
185	4.5	25	3.1	71.1	9310	5770	6.8	1.8	3.15	3.4	80.6	14170	10570
240	4.5	25	3.3	76.9	11390	6680	7.4	1.9	3.15	3.6	86.6	16670	11810
300	4.5	25	3.5	81.6	13510	7790	7.9	2.0	3.15	3.7	91.3	19140	13340
400	4.5	35	3.7	89.9	17130	9340	8.5	2.1	3.15	4.0	100.0	23360	15410

### Electrical Data

Nom. Cross-Section	Unarmoured Cables	Steel Wire	Current Ratings
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on Area							Armoured Cables								
	D C Resistan ce CU / AL	A C Resistan ce CU / AL	Short Circuit Rating of Conduct or CU / AL1 sec	Capaci-ta nce	Chargi ng Curren t	Short Circuit Rating of Copper Wire Screen Per Core 1 sec	Short Circuit Rating of CopperTa pe Screen Per Core 1 sec	Reac-tan ce	Induc-ta nce	Groun d		Duct		Air	
										CU	AL	CU	AL	CU	AL
mm <sup>2</sup>	μΩ/m	μΩ/m	kA	pF/m	mA/m	kA	kA	μΩ/m	nH/m	A	A	A	A		
25	727/1200	927/1538	3.6/2.3	176	0.48	2.6	0.6	138	410	140	115	125	95	145	115
35	524/88	668/1113	5.0/3.2	193	0.53	2.6	0.6	123	390	170	135	150	115	175	140
50	387/641	494/822	6.8/4.4	211	0.58	2.6	0.7	116	370	210	160	180	135	220	170
70	268/443	343/568	9.8/6.3	240	0.65	2.6	0.7	110	350	255	195	215	165	270	210
95	193/320	248/410	13.3/8.5	267	0.73	2.6	0.8	105	330	300	230	255	205	330	250
120	153/253	196//325	17.2/11.0	291	0.79	2.6	0.8	102	320	340	265	290	225	375	290
150	124/206	159/265	21.2/13.5	312	0.85	4.3	0.9	98	310	380	300	330	255	430	330
185	99.1/164	128/211	26.6/17.0	340	0.93	4.3	0.9	95	300	430	335	370	290	490	385
240	75.4/125	98/161	34.9/22.3	375	1.02	4.3	1.0	91	290	490	380	425	335	570	450
300	60.1/100	80/130	43.8/28.0	411	1.12	4.3	1.1	89	280	540	435	470	375	650	510



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400	47.0/77.8	64/102	57.3/36.6	454	1.24	5.8	1.2	84	270	59	48	52	42	70	57
										0	0	0	0	0	0

**Three Core 12.7/22KV (Um=24KV)**

**Dimensional Data**

Nom. Cross-Section Area	Nom. Insulation Thickness	Unarmoured Cables					Steel Wire Armoured Cables						
		Copper Wire Screen Area	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight		Copper Tape Screen Area	Nom. Bedding Thickness	Nom. Armour Wire Diameter	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight	
					CU	AL						CU	AL
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	kg/km		mm <sup>2</sup>	mm	mm	mm	mm	kg/km	
35	5.5	16	2.7	51	3750	2880	5.2	1.5	2.5	2.8	62.3	6870	6140
50	5.5	16	2.8	54	4240	3250	5.4	1.5	2.5	2.9	65.6	7710	6810
70	5.5	16	2.9	58	5050	3650	5.9	1.6	2.5	3.0	69.0	8710	7370
95	5.5	16	3.0	62	6010	4110	6.2	1.7	2.5	3.2	73.1	10000	8130
120	5.5	16	3.1	65	6990	4660	6.6	1.7	3.15	3.3	77.7	12040	9730
150	5.5	25	3.2	68	8130	5330	6.9	1.8	3.15	3.4	81.7	13550	10750
185	5.5	25	3.3	72	9410	5870	7.4	1.9	3.15	3.6	85.5	15150	11610
240	5.5	25	3.5	79	11490	6880	7.8	2.0	3.15	3.7	91.3	17710	12840
300	5.5	25	3.7	84	13710	7890	8.2	2.0	3.15	3.9	96.0	20170	14360
400	5.5	35	3.9	91	17230	9440	9.0	2.2	3.15	4.1	104.8	24520	16480

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**Electrical Data**

Nom. Cross-Section Area	Unarmoured Cables						Steel Wire Armoured Cables		Current Ratings						
	D C Resistance CU / AL	A C Resistance CU / AL	Short Circuit Rating of Conductor CU / AL 1 sec	Capacitance	Charging Current	Short Circuit Rating of Copper Wire Screen Per Core 1 sec	Short Circuit Rating of Copper Tape Screen Per Core 1 sec	Reactance	Inductance	Ground		Duct		Air	
										CU	AL	CU	AL	CU	AL
mm <sup>2</sup>	μΩ/m	μΩ/m	kA	pF/m	mA/m	kA	kA	μΩ/m	nH/m	A		A		A	
35	524/868	668/1113	5.0/3.2	168	0.67	2.6	0.7	129	410	170	135	155	120	180	145
50	387/641	494/822	6.8/4.4	183	0.73	2.6	0.8	122	390	210	160	185	140	225	175
70	268/443	343/568	9.8/6.3	207	0.83	2.6	0.8	115	370	255	195	225	170	275	215
95	193/320	248/410	13.3/8.5	229	0.92	2.6	0.9	110	350	295	230	260	205	330	260
120	153/253	196/325	17.2/11.0	249	1.00	2.6	0.9	106	340	335	260	300	235	380	300
150	124/206	159/265	21.2/13.5	266	1.06	4.3	1.0	103	330	375	290	335	265	430	335
185	99.1/164	128/211	26.6/17.0	289	1.16	4.3	1.0	100	320	420	330	380	300	490	390
240	75.4/125	98/161	34.9/22.3	318	1.27	4.3	1.1	95	300	480	380	430	345	570	460
300	60.1/10	80/130	43.8/28	348	1.39	4.3	1.2	93	300	530	420	480	380	650	520



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0	.0	0	5	0	5	0	0								
400	47.0/77.8	64/102	57.3/36.6	383	1.53	5.8	1.3	87	280	59	48	52	42	70	57
										0	0	0	0	0	0

### Three Core 19/33KV (Um=36KV)

#### Dimensional Data

Nom. Cross-Section Area	Nom. Insulation Thickness	Unarmoured Cables					Steel Wire Armoured Cables						
		Copper Wire Screen Area	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight		Copper Tape Screen Area	Nom. Bedding Thickness	Nom. Armour Wire Diameter	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight	
					CU	AL						CU	AL
mm <sup>2</sup>	mm	mm <sup>2</sup>	mm	mm	kg/km		mm <sup>2</sup>	mm	mm	mm	mm	kg/km	
35	8.0	16	3.1	60	3750	2880	6.5	1.7	2.5	3.2	74.9	9460	8700
50	8.0	16	3.2	65	5240	4260	6.7	1.8	3.15	3.4	79.0	10620	9680
70	8.0	16	3.3	70	6120	4730	7.1	1.8	3.15	3.5	82.5	11840	10440
95	8.0	16	3.4	74	7140	5240	7.5	1.9	3.15	3.6	86.4	13200	11350
120	8.0	16	3.5	77	8080	5710	7.9	2.0	3.15	3.7	89.9	14520	12190
150	8.0	25	3.6	80	9120	6220	8.2	2.0	3.15	3.8	93.6	16070	13280
185	8.0	25	3.7	84	10440	6940	8.6	2.1	3.15	3.9	97.3	17710	14090
240	8.0	25	3.9	91	12620	8010	9.2	2.2	3.15	4.1	103.2	20370	15460
300	8.0	25	4.0	95	14690	8800	9.7	2.3	3.15	4.3	108.2	22980	17210



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400	8.0	35	4.3	103	17720	1023	10.3	2.4	3.15	4.5	116.8	2748	1945
						0						0	0

**Electrical Data**

Nom. Cross-Section Area	Unarmoured Cables						Steel Wire Armoured Cables		Current Ratings						
	DC Resistance CU / AL	AC Resistance CU / AL	Short Circuit Rating of Conductor CU / AL 1 sec	Capacitance	Charging Current	Short Circuit Rating of Copper Wire Screen Per Core 1 sec	Short Circuit Rating of Copper Tape Screen Per Core 1 sec	Reactance	Inductance	Ground		Duct		Air	
										CU	AL	CU	AL	CU	AL
mm <sup>2</sup>	μΩ/m	μΩ/m	kA	pF/m	mA/m	kA	kA	μΩ/m	nH/m	A		A		A	
35	524/868	668/1113	5.0/3.2	132	0.79	2.6	0.9	140	460	17	13	15	12	18	14
50	387/641	494/822	6.8/4.4	142	0.85	2.6	1.0	134	430	21	16	18	14	22	17
70	268/443	343/568	9.8/6.3	159	0.95	2.6	1.0	127	400	25	19	22	17	27	21
95	193/320	248/410	13.3/8.5	175	1.05	2.6	1.1	121	390	29	23	26	20	33	26
120	153/253	196/325	17.2/11.0	189	1.13	2.6	1.1	117	370	33	26	30	23	38	30
150	124/206	159/265	21.2/13.5	201	1.21	4.3	1.2	113	360	37	29	33	26	43	33
185	99.1/164	128/211	26.6/17.0	217	1.30	4.3	1.2	109	350	42	33	38	30	49	39



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240	75.4/125	98/161	34.9/22. 3	237	1.42	4.3	1.3	104	330	48 0	38 0	43 0	34 5	57 0	46 0
300	60.1/10 0	80/130	43.8/28 .0	258	1.55	4.3	1.4	101	320	53 0	42 5	48 0	38 5	65 0	52 0
400	47.0/77. 8	64/102	57.3/36. 6	282	1.69	5.8	1.5	96	290	59 0	48 0	52 0	42 0	70 0	57 0