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## 40/69kV XLPE Insulated, PE Sheathed High Voltage Power Cables

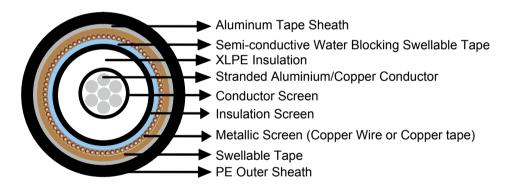
### **APPLICATIONS**

These single core cables are designed 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. If the cable gets water inside due to the mechanical demages, swellable tapes prevent the movement of the water inside the cable.

#### Standard

IEC 60840

### **CONSTRUCTION**



**Conductor:** Copper/Aluminium wire, stranded to BS 6360 class 2.

**Conductor Screen:** The conductor screen consists of an extruded layer of non metallic, semi-conducting compound applied on top of a semi-conducting tape. The conductor screen is applied under triple extrusion process over the conductor along with the insulation and the insulation screen. The extruded semi-conducting compound is firmly bonded to the insulation to exclude all air voids and can be easily hand stripped on site.

Insulation: Extruded cross-linked polyethylene (XLPE-GP8) compound insulation

**Insulaton Screen:** The insulation screen consists of an extruded layer of non metallic, semi-conducting compound extruded over the insulation of each core. The extruded semi-conducting layer shall consist of bonded or cold strippable semi-conducting compound capable of removal for jointing or terminating.

Semi-conductive Water Blocking Swellable Tape: A semi-conducting tape shall be

applied over the core assembly 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. The screen may be covered by semi-conductive water blocking swellable tape to ensure longitudinal watertightness.

Metallic Layer: The metallic layer may be applied over the core assembly collectively.

The metallic screen shall consist of either copper tapes or a concentric layer of copper wires

or a combination of tapes and wires. **Swellable Tape:**Swellable material

Separation Sheath: Aluminum Tape sheath

Outer Sheath: Thermoplastic HDPE-ST3 compound

#### **Dimensional Data**

Nom. Cross-Section Area	Nom. Insulation Thickness	Metallic Screen Area	Approx. Overall Diameter	Approx. Weight			
Alou	THIOMICOS		Diamotor	CU	AL		
mm²	mm	mm²	mm	kg/m			
240	11.0	35	56.9	4.3	2.9		
300	11.0	50	59.9	5.1	3.3		
400	11.0	50	61.5	6.0	3.8		
500	11.0	50	63.0	7.0	4.1		
630	11.0	50	67.0	8.5	4.6		
800	11.0	50	71.0	10.3	5.4		
1000	11.0	50	77.0	12.6	6.3		
1200	11.0	70	83.0	14.7	7.6		

Nom. Cross-	_	DC AC					Continuous Current Rating for Single Circuit						
Section Area	Resistan	ice @20°C	Resistance @90°C		ance @90°C   Capacitance   per core		С	u conducto	or	Δ	l conducto	or	
7	Cu	Al	Cu	Al			Direct In Air			Direct	In .	Air Flat	
mm²	Ω/km	Ω/km	Ω/km	Ω/km	μF/km	mH/km	Buried Trefoil Flat  A					riat	
240	0.0754	0.125	0.0970	0.1608	0.174	0.414	545	576	715	424	449	557	
300	0.0601	0.100	0.0777	0.1289	0.189	0.397	617	658	820	481	515	642	
400	0.0470	0.0778	0.0613	0.1006	0.207	0.381	706	762	955	554	601	752	
500	0.0366	0.0605	0.0485	0.0787	0.242	0.360	805	877	1108	635	697	878	
630	0.0283	0.0469	0.0384	0.0616	0.267	0.446	920	1012	1292	728	807	1023	
800	0.0221	0.0367	0.0311	0.0489	0.291	0.334	1039	1049	1483	830	931	1189	
1000	0.0176	0.0291	0.0232	0.0378	0.329	0.323	1157	1292	1688	937	1060	1364	
1200	0.0151	0.0247	0.0201	0.0322	0.363	0.315	1333	1542	1974	1054	1226	1558	



## 64/110kV XLPE Insulated, PE Sheathed High Voltage Power Cables

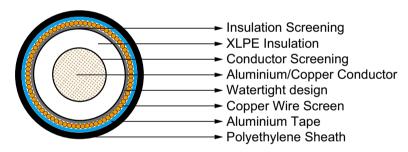
#### **APPLICATIONS**

These single core cables are designed for distribution of electrical power with nominal voltage 64/110kV. 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.

#### Standard

IEC 60840

#### CONSTRUCTION



**Conductor:** The cable conductors can be made of copper or aluminium, depending on customer's preference or current carrying capacity. Large size solid conductors are made of aluminium. Available constructions including: round solid conductors up to 2000mm² (RE); circular stranded compacted conductors up to 1200mm² (RM); circular conductors with shaped wires up to 2000mm² (RM, Keystone conductors); segmental conductors up to 2500 mm² (RMS, Milliken conductors); oval shaped stranded compacted conductors up to 800mm² for external gas pressure cables (OM).

**Conductor Screen:** Extruded layer of semi-conducting cross-linkable compound is applied over the conductor and shall cover the surface completely.

**Insulation:** Insulation is of cross-linked polyethylene compound XLPE.

**Insulaton Screen:** Extruded layer of semi-conducting cross-linkable compound is applied over the insulation.

**Metallic Layer:** The metallic layer may be applied over the core assembly collectively.

The metallic screen shall consist of either copper tapes or a concentric layer of copper wires or a combination of tapes and wires.

**Separation Sheath:** Aluminum Tape sheath

#### Dimensional Data

Nom. Cross-Section	Nom. Insulation Thickness	Copper Wire Screen	Approx. Overall Diameter	Approx. Weight			
Alea	THICKHESS	Alea	Diameter	CU	AL		
mm²	mm	mm²	mm	kg	/m		
240	15.0	95	65.0	5.6	4.1		
300	15.0	95	67.0	6.3	4.5		
400	15.0	95	71.0	7.2	5.0		
500	14.0	95	72.0	8.2	5.3		
630	14.0	95	76.0	9.7	5.9		
800	14.0	95	80.0	11.6	6.7		
1000	14.0	95	86.0	14.0	7.4		
1200	14.0	95	92.0	16.0	8.7		
1600	14.0	95	98.0	19.9	10.4		
2000	14.0	95	106.0	24.2	12.0		
2500	14.0	95	114.0	30.0	14.3		

Nom. Cross-	_	DC		AC			Continuous Current Rating for Single Circuit (in air)				
Section Area	Resistan	ce @20°C	Resistan	Resistance @90°C		acitance er core	Cu conductor		Al con	ductor	
	Cu	Al	Cu	Al			Trefoil	Flat	Trefoil	Flat	
mm²	Ω/km	Ω/km	Ω/km	Ω/km	μF/km	mH/km	1	4	,	4	
240	0.0754	0.125	0.0973	0.161	0.141	0.442	576	715	449	557	
300	0.0601	0.100	0.0781	0.129	0.152	0.424	658	820	515	642	
400	0.0470	0.0778	0.0618	0.101	0.165	0.407	762	955	601	752	
500	0.0366	0.0605	0.0492	0.0791	0.188	0.392	877	1108	697	878	
630	0.0283	0.0469	0.0393	0.0622	0.206	0.376	1012	1292	807	1023	
800	0.0221	0.0367	0.0326	0.0500	0.224	0.363	1149	1483	931	1189	
1000	0.0176	0.0291	0.0232	0.0375	0.251	0.349	1292	1688	1060	1364	
1200	0.0151	0.0247	0.0201	0.0319	0.275	0.340	1542	1974	1226	1558	
1600	0.0113	0.0186	0.0156	0.0240	0.304	0.328	1741	2251	1432	1834	
2000	0.0090	0.0149	0.0129	0.0193	0.336	0.318	1942	2536	1619	2085	
2500	0.0072	0.0119	0.0109	0.0156	0.372	0.309	2149	2836	1815	2353	



### 76/132kV XLPE Insulated, PE Sheathed High **Voltage Power Cables**

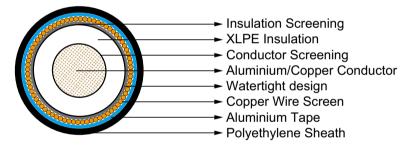
#### **APPLICATIONS**

These single core cables are designed for distribution of electrical power with nominal voltage 76/132kV. 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.

#### **Standard**

IEC 60840

#### **CONSTRUCTION**



Conductor: The cable conductors can be made of copper or aluminium, depending on customer's preference or current carrying capacity. Large size solid conductors are made of aluminium. Available constructions including: round solid conductors up to 2000mm<sup>2</sup> (RE); circular stranded compacted conductors up to 1200mm2 (RM); circular conductors with shaped wires up to 2000mm<sup>2</sup> (RM, Keystone conductors); segmental conductors up to 2500 mm<sup>2</sup> (RMS, Milliken conductors); oval shaped stranded compacted conductors up to 800mm<sup>2</sup> for external gas pressure cables (OM).

Conductor Screen: Extruded layer of semi-conducting cross-linkable compound is applied over the conductor and shall cover the surface completely.

**Insulation:** Insulation is of cross-linked polyethylene compound XLPE.

Insulaton Screen: Extruded layer of semi-conducting cross-linkable compound is applied over the insulation.

**Metallic Layer:** The metallic layer may be applied over the core assembly collectively. The metallic screen shall consist of either copper tapes or a concentric layer of copper wires or a combination of tapes and wires.

**Separation Sheath:** Aluminum Tape sheath

#### Dimensional Data

Nom. Cross-Section	Nom. Insulation	Copper Wire Screen	Approx. Overall	Approx	. Weight
Area	Thickness	Area	Diameter	CU	AL
mm²	mm	mm²	mm	kg	/m
185	22.0	50	74	6.0	4.4
240	20.0	50	72	6.2	4.3
300	19.0	50	72	6.8	4.5
400	18.0	50	74	7.7	5.2
500	18.0	50	77	8.8	5.7
630	18.0	50	81	10.3	6.4
800	16.0	50	82	11.7	6.8
1000	16.0	110	93	15.0	9.1
1200	15.0	110	94	17.0	9.7
1400	15.0	110	98	19.0	10.0
1600	15.0	110	101	21.0	11.0
1800	14.0	110	102	23.0	12.0
2000	14.0	110	106	25.0	13.0
2500	14.0	110	113	30.0	15.0

Nom. Cross-	Danistanas @2000		AC		Canacitanas		Current Ra	tings/Power F	Ratings(contin	nuous load)	
Section Area	Resistan	ce @20°C	Resistan	ce @90°C	Capacitance per core	Inductance	Cu conductor  1 circuit 2 circuits		Al con	Al conductor	
	Cu	Al	Cu	Al	1				1 circuit	2 circuits	
mm²	Ω/km	Ω/km	Ω/km	Ω/km	μF/km	mH/km	A/N	/IVA	A/N	īVA	
								trefoil ins	stallation		
185	0.0991	0.164	0.127	0.211	0.107	0.49	368/84	314/72	289/66	246/56	
240	0.0754	0.125	0.0973	0.161	0.121	0.46	420/96	358/82	332/76	282/64	
300	0.0601	0.100	0.0781	0.129	0.134	0.44	469/107	398/91	371/85	315/72	
400	0.0470	0.0778	0.0618	0.101	0.151	0.42	525/120	444/102	420/96	356/81	
500	0.0366	0.0605	0.0492	0.0791	0.163	0.40	586/134	493/113	474/108	400/91	
630	0.0283	0.0469	0.0393	0.0622	0.177	0.39	649/148	545/125	533/122	448/102	
800	0.0221	0.0367	0.0326	0.0500	0.212	0.36	706/161	591/135	591/135	495/113	
								flat inst	allation		
1000	0.0176	0.0291	0.0232	0.0375	0.245	0.56	999/228	852/195	791/181	675/154	
1200	0.0151	0.0247	0.0201	0.0319	0.271	0.55	1074/246	915/209	859/196	732/167	
1400	0.0129	0.0212	0.0175	0.0275	0.286	0.53	1155/264	984/225	929/212	791/181	
1600	0.0113	0.0186	0.0156	0.0240	0.301	0.52	1226/280	1043/238	997/228	849/194	
1800	0.0101	0.0165	0.0142	0.0213	0.332	0.51	1285/294	1091/249	1058/242	900/206	
2000	0.0090	0.0149	0.0129	0.0193	0.346	0.50	1346/308	1144/262	1114/255	947/217	
2500	0.0072	0.0119	0.0109	0.0156	0.378	0.47	1465/335	1244/284	1244/284	1057/242	



# 127/220kV XLPE Insulated, PE Sheathed High Voltage Power Cables

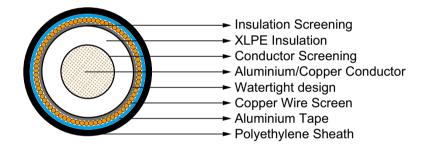
#### **#**

#### **APPLICATIONS**

These single core cables are designed for distribution of electrical power with nominal voltage 127/220kV. 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.

#### **Standard**

IEC 62067



#### **CONSTRUCTION**

**Conductor:** The cable conductors can be made of copper or aluminium, depending on customer's preference or current carrying capacity. Large size solid conductors are made of aluminium. Available constructions including: round solid conductors up to 2000mm² (RE); circular stranded compacted conductors up to 1200mm² (RM); circular conductors with shaped wires up to 2000mm² (RM, Keystone conductors); segmental conductors up to 2500 mm² (RMS, Milliken conductors); oval shaped stranded compacted conductors up to 800mm² for external gas pressure cables (OM).

**Conductor Screen:** Extruded layer of semi-conducting cross-linkable compound is applied over the conductor and shall cover the surface completely.

**Insulation:** Insulation is of cross-linked polyethylene compound XLPE.

**Insulaton Screen:** Extruded layer of semi-conducting cross-linkable compound is applied over the insulation.

**Metallic Layer:** The metallic layer may be applied over the core assembly collectively.

The metallic screen shall consist of either copper tapes or a concentric layer of copper wires or a combination of tapes and wires.

**Separation Sheath:** Aluminum Tape sheath

#### Dimensional Data

Nom. Cross-Section	Nom. Insulation	Copper Wire Screen	Approx. Overall	Approx	. Weight
Area	Thickness	Area	Diameter	CU	AL
mm²	mm	mm²	mm	kg/m	
240	25.0	50	83.0	7.4	5.9
300	24.0	50	83.0	8.0	6.1
400	22.0	50	82.0	8.6	6.2
500	22.0	50	86.0	9.9	6.8
630	22.0	50	90.0	11.4	7.5
800	19.0	50	88.0	12.5	7.5
1000	19.0	110	98.0	16.0	10.0
1200	18.0	110	100.0	18.0	10.6
1400	18.0	110	103.0	20.0	11.4
1600	18.0	110	108.0	22.0	12.4
1800	19.0	110	113.0	25.0	13.6
2000	19.0	110	116.0	27.0	14.5
2500	19.0	110	123.0	32.0	16.6

Nom. Cross-	Desistance @2000			AC			Current Ratings/Power Ratings(continuous load)			
Section Area	Resistan	ce @20°C	Resistand	ce @90°C	Capacitance per core	Inductance	Cu conductor		Al conductor	
	Cu	Al	Cu	Al			1 circuit	2 circuits	1 circuit	2 circuits
mm²	Ω/km	Ω/km	Ω/km	Ω/km	μF/km	mH/km	A/N	/IVA	A/N	/IVA
								trefoil in:	stallation	
240	0.0754	0.125	0.0973	0.161	0.106	0.49	423/161	357/136	333/127	282/107
300	0.0601	0.100	0.0781	0.129	0.116	0.47	470/179	396/151	372/142	314/120
400	0.0470	0.0778	0.0618	0.101	0.133	0.44	524/200	440/168	420/160	352/134
500	0.0366	0.0605	0.0492	0.0791	0.143	0.42	584/223	489/186	473/180	396/151
630	0.0283	0.0469	0.0393	0.0622	0.155	0.41	648/247	540/206	531/202	443/169
800	0.0221	0.0367	0.0326	0.0500	0.187	0.38	702/267	582/222	587/224	487/186
								flatinst	allation	
1000	0.0176	0.0291	0.0232	0.0375	0.215	0.56	989/377	857/327	782/298	678/258
1200	0.0151	0.0247	0.0201	0.0319	0.236	0.55	1060/404	917/349	849/324	734/280
1400	0.0129	0.0212	0.0175	0.0275	0.248	0.53	1136/433	981/374	915/349	790/301
1600	0.0113	0.0186	0.0156	0.0240	0.260	0.52	1201/458	1035/394	979/373	844/322
1800	0.0101	0.0165	0.0142	0.0213	0.260	0.51	1253/477	1080/412	1035/394	892/340
2000	0.0090	0.0149	0.0129	0.0193	0.270	0.50	1308/498	1126/429	1086/414	935/356
2500	0.0072	0.0119	0.0109	0.0156	0.294	0.47	1406/536	1207/460	1201/458	1031/393



# 230/400kV XLPE Insulated, PE Sheathed High Voltage Power Cables

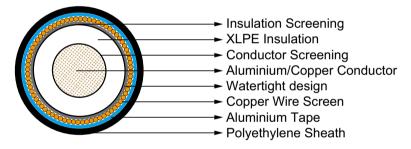
#### **APPLICATIONS**

These single core cables are designed for distribution of electrical power with nominal voltage 230/400kV. 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.

#### **Standard**

IEC 62067

#### **CONSTRUCTION**



**Conductor:** The cable conductors can be made of copper or aluminium, depending on customer's preference or current carrying capacity. Large size solid conductors are made of aluminium. Available constructions including: round solid conductors up to 2000mm² (RE); circular stranded compacted conductors up to 1200mm² (RM); circular conductors with shaped wires up to 2000mm² (RM, Keystone conductors); segmental conductors up to 2500 mm² (RMS, Milliken conductors); oval shaped stranded compacted conductors up to 800mm² for external gas pressure cables (OM).

**Conductor Screen:** Extruded layer of semi-conducting cross-linkable compound is applied over the conductor and shall cover the surface completely.

**Insulation:** Insulation is of cross-linked polyethylene compound XLPE.

**Insulaton Screen:** Extruded layer of semi-conducting cross-linkable compound is applied over the insulation.

**Metallic Layer:** The metallic layer may be applied over the core assembly collectively.

The metallic screen shall consist of either copper tapes or a concentric layer of copper wires or a combination of tapes and wires.

**Separation Sheath:** Aluminum Tape sheath

#### Dimensional Data

Nom. Cross-Section Area	Nom. Insulation Thickness	Copper Wire Screen Area	Approx. Overall Diameter	Approx. Weight		
				CU	AL	
mm²	mm	mm²	mm	kg	/m	
630	33.0	170	118	17	13	
800	31.0	170	118	18	13	
1000(RM)	29.0	170	118	20	14	
1000(RMS)	29.0	170	121	20	14	
1200	27.0	170	120	22	14	
1400	27.0	170	123	24	15	
1600	27.0	170	127	26	16	
1800	26.0	170	128	28	17	
2000	26.0	170	131	30	18	
2500	26.0	170	138	36	20	

Nom. Cross-		DC		A C Resistance @90°C			Current Ratings/Power Ratings(continuous load)				
Section Area	Resistance @20°C		Resistand			Inductance	Cu cor	nductor	Al con	ductor	
	Cu	Al	Cu	Al		1 circuit	2 circuits	1 circuit	2 circuits		
mm²	Ω/km	Ω/km	Ω/km	Ω/km	μF/km	mH/km	A/N	/IVA	A/N	/IVA	
								trefoil ins	stallation		
630	0.0283	0.0469	0.0393	0.0622	0.119	0.46	594/412	481/333	499/346	406/281	
800	0.0221	0.0367	0.0317	0.0500	0.134	0.44	636/441	512/355	545/378	440/305	
1000(RM)	0.0176	0.0291	0.0276	0.0409	0.150	0.41	671/465	538/373	587/407	471/326	
								flat inst	allation		
1000(RM)	0.0176	0.0291	0.0232	0.0375	0.156	0.56	938/650	804/557	748/518	641/444	
1200	0.0151	0.0247	0.0201	0.0319	0.171	0.55	1001/694	855/592	808/560	690/478	
1400	0.0129	0.0212	0.0175	0.0275	0.180	0.53	1070/741	912/632	868/601	740/513	
1600	0.0113	0.0186	0.0156	0.0240	0.188	0.52	1125/779	957/663	924/640	787/545	
1800	0.0101	0.0165	0.0142	0.0213	0.201	0.51	1168/809	990/686	973/674	826/572	
2000	0.0090	0.0149	0.0129	0.0193	0.209	0.50	1212/840	1026/711	1016/704	861/597	
2500	0.0072	0.0119	0.0109	0.0156	0.226	0.47	1289/893	1086/752	1112/770	938/650	



## 290/500kV XLPE Insulated, PE Sheathed High Voltage Power Cables

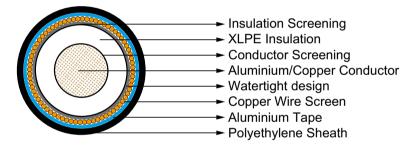
#### **APPLICATIONS**

These single core cables are designed for distribution of electrical power with nominal voltage 290/500kV. 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.

#### **Standard**

IEC 62067

#### **CONSTRUCTION**



**Conductor:** The cable conductors can be made of copper or aluminium, depending on customer's preference or current carrying capacity. Large size solid conductors are made of aluminium. Available constructions including: round solid conductors up to 2000mm² (RE); circular stranded compacted conductors up to 1200mm² (RM); circular conductors with shaped wires up to 2000mm² (RM, Keystone conductors); segmental conductors up to 2500 mm² (RMS, Milliken conductors); oval shaped stranded compacted conductors up to 800mm² for external gas pressure cables (OM).

**Conductor Screen:** Extruded layer of semi-conducting cross-linkable compound is applied over the conductor and shall cover the surface completely.

**Insulation:** Insulation is of cross-linked polyethylene compound XLPE.

**Insulaton Screen:** Extruded layer of semi-conducting cross-linkable compound is applied over the insulation.

**Metallic Layer:** The metallic layer may be applied over the core assembly collectively. The metallic screen shall consist of either copper tapes or a concentric layer of copper wires or a combination of tapes and wires.

**Separation Sheath:** Aluminum Tape sheath

#### Dimensional Data

Nom. Cross-Section Area	Nom. Insulation Thickness	Copper Wire Screen Area	Approx. Overall Diameter	Approx. Weight			
70		702		CU	AL		
mm²	mm	mm²	mm	kg	/m		
800	35.0	170	126.0	20.0	15.0		
1000(RM)	33.0	170	126.0	21.0	15.0		
1000(RMS)	32.0	170	128.0	22.0	16.0		
1200	31.0	170	130.0	24.0	16.0		
1400	31.0	170	133.0	26.0	17.0		
1600	31.0	170	136.0	28.0	18.0		
1800	31.0	170	139.0	30.0	19.0		
2000	31.0	170	143.0	33.0	20.0		
2500	31.0	170	150.0	38.0	23.0		

Nom. Cross- Section Area	D C Resistance @20°C		A C Resistance @90°C		Capacitance per core	Inductance	Current Ratings/Power Ratings(continuous load)			
							Cu conductor		Al conductor	
	Cu	Al	Cu	Al			1 circuit	2 circuits	1 circuit	2 circuits
mm²	Ω/km	Ω/km	Ω/km	Ω/km	μF/km	mH/km	A/MVA A/MVA		/IVA	
							trefoil installation			
800	0.0221	0.0367	0.0317	0.0500	0.124	0.45	628/544	498/431	537/465	427/370
1000(RM)	0.0176	0.0291	0.0276	0.0409	0.137	0.43	661/572	520/450	577/500	455/394
							flat installation			
1000(RMS)	0.0176	0.0291	0.0232	0.0375	0.149	0.56	907/785	770/667	725/628	615/533
1200	0.0151	0.0247	0.0201	0.0319	0.159	0.55	968/838	818/708	782/677	661/572
1400	0.0129	0.0212	0.0175	0.0275	0.167	0.53	1031/896	868/752	838/726	707/612
1600	0.0113	0.0186	0.0156	0.0240	0.174	0.52	1085/896	912/790	893/773	751/650
1800	0.0101	0.0165	0.0142	0.0213	0.180	0.51	1124/973	942/816	939/813	787/682
2000	0.0090	0.0149	0.0129	0.0193	0.187	0.50	1159/1004	969/839	976/845	816/707
2500	0.0072	0.0119	0.0109	0.0156	0.202	0.47	1226/1062	1019/882	1063/921	884/766

