KOBREX®

WIRE & CABLE

Brochure



GILM

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INDALUM®

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GALVASID



ABOUT US

KOBREX is a Mexican manufacturer with solid experience in the production of electrical conductors for low-, medium-, and high-voltage applications, serving the evolving needs of the construction, industrial, renewable energy, and power distribution sectors. Founded in 1996 and backed by Grupo Industrial LM — a 100% Mexican industrial group established in 1964 — KOBREX combines manufacturing strength, technical expertise, and a strong commitment to product quality and reliability.

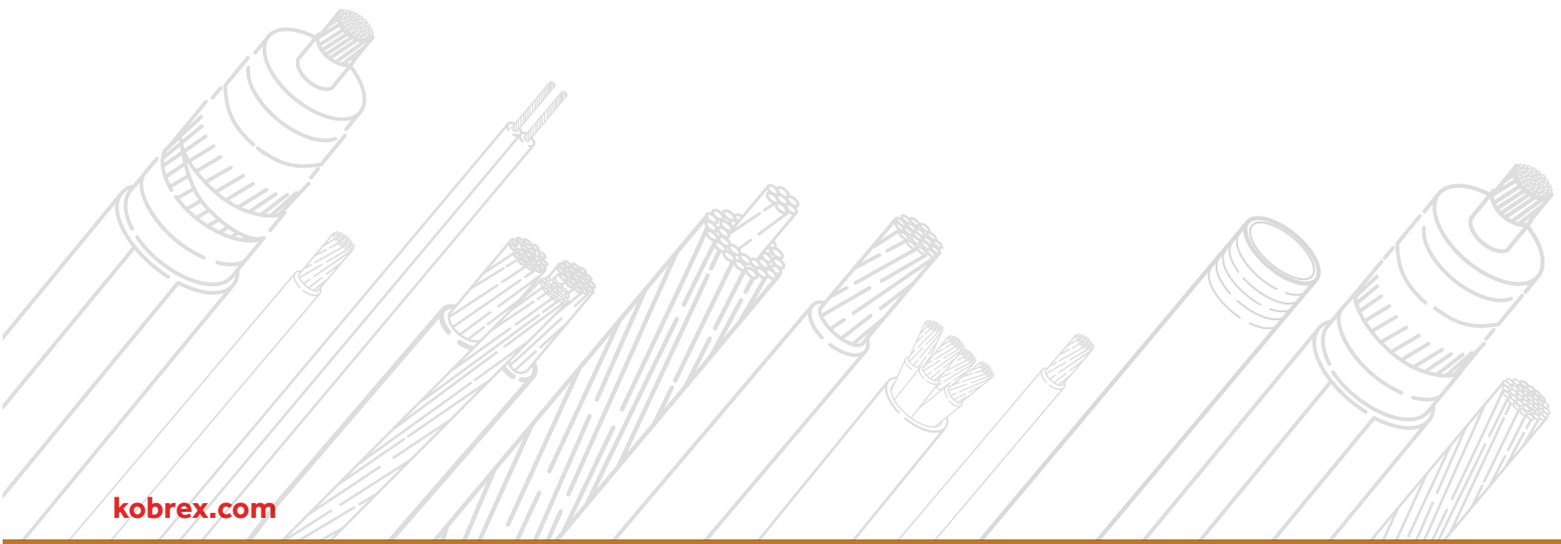
With more than 10 strategically located distribution centers and an established network serving the United States and Central America, KOBREX delivers dependable cable solutions designed to meet demanding market requirements. Our approach is grounded in close customer support, robust quality processes, and alignment with applicable Mexican and international standards, including NOM, ANCE, CFE, and UL. Through innovative processes and industry best practices, we provide trusted solutions for energy generation and distribution projects across the region.



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CABLE GUIDE



BARE COPPER WIRE AND CABLE

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

99.9% pure concentric electrolytic copper wire or cable in three different tempers:
- Soft bare copper
- Medium hard-drawn

Cables are available in following stranding classes:
- A
- AA
- B

APPLICATIONS

Depending on their temper and construction, bare copper cables and wires can be used:
- As grounding conductor for electrical equipment and its circuits
- As grounding conductor for machinery or industrial equipment
- For neutral connections

FEATURES

- High electrical conductivity
- High ductility
- High tensile strength and fatigue resistance depending on selected temper
- High resistance to corrosion in contaminated saline environments
- Easy to weld

Maximum operating voltage:
Depending on insulators supporting the line.

Preferred max. operating temp:
75°C

Packaging:
- Coils (wire only)
- Wooden reels

Manufacturing range:
Wire:
- Medium-hard drawn: 18 AWG to 4 AWG
- Soft drawn: 18 AWG to 4 AWG

Cable:
- Medium-hard drawn: 4 AWG to 1000 kcmil
- Soft drawn: 18 AWG to 1000 kcmil

Standards:
- ASTM B1
- ASTM B2
- ASTM B3
- ASTM B8

DIMENSIONS AND FEATURES OF SOLID WIRES									
Size	Cross-sectional area	Nominal wire diameter	Theoretical weight	Medium-hard drawn		Soft drawn			Ampacity
				Rated Strength	DC electrical resistance at 20ºC	Rated Strength		DC electrical resistance at 20ºC	
AWG	mm²	in	kg/km	kgf	ohm/km	kgf	lbf	ohm/kft	Amps
18	0.824	0.0402	7.32	31	21.69	22	49	6.4009	-
17	1.04	0.0453	9.24	39	17.19	28	62	5.0597	-
16	1.31	0.0508	11.6	48	13.62	35	77	4.0234	-
15	1.65	0.0571	14.7	60	10.83	45	99	3.1700	-
14	2.08	0.0642	18.5	80	8.60	56	123	2.5238	-
13	2.63	0.0720	23.4	95	6.79	71	157	1.9995	-
12	3.31	0.0807	29.4	119	5.38	89	196	1.5880	-
11	4.17	0.0906	37.1	148	4.27	113	249	1.2619	-
10	5.26	0.1020	46.8	186	3.39	142	313	0.9998	-
9	6.63	0.1146	58.9	233	2.69	173	381	0.7925	-
8	8.37	0.1283	74.4	292	2.13	218	481	0.6279	90
7	10.6	0.1445	93.8	366	1.69	275	606	0.4968	110
6	13.3	0.1622	118.2	458	1.34	346	763	0.3962	120
5	16.8	0.1819	149	538	1.06	436	961	0.3139	140
4	21.2	0.2043	188	718	0.84	550	1213	0.2484	170

DIMENSIONS AND FEATURES OF STRANDED CONDUCTORS														
Size	Cross-sectional area	Theoretical weight	Medium-hard drawn				Soft drawn							Ampacity
			Strands	Nominal wire diameter	Rated Strength	DC electrical resistance at 20ºC (1)	Strands	Nominal wire diameter	Strands	Nominal wire diameter	Rated Strength		DC electrical resistance at 20ºC (1)	
AWG/ kcmil	mm²	lb/kft		in	lbf	ohm/kft		in		in	lbf	ohm/km	ohm/kft	Amps
18	0.824	5.02	-	-	-	-	7	0.0457	19	0.0465	51	21.4	6.523	-
16	1.31	7.96	-	-	-	-	7	0.0575	19	0.0583	82	13.5	4.115	-
14	2.08	12.69	-	-	-	-	7	0.0728	19	0.0736	123	8.45	2.576	-
12	3.31	20.15	-	-	-	-	7	0.0917	19	0.0929	198	5.32	1.622	-
10	5.26	32.05	-	-	-	-	7	0.1154	19	0.1169	313	3.34	1.018	-
8	8.37	50.98	-	-	-	-	7	0.1457	19	0.1476	498	2.1	0.640	90
7	10.6	64.31	-	-	-	-	7	0.1638	19	0.1654	631	1.67	0.509	110
6	13.3	81.04	-	-	-	-	7	0.1839	19	0.1858	794	1.32	0.402	130
5	16.8	102.21	-	-	-	-	7	0.2063	19	0.2087	1001	1.05	0.320	150
4	21.2	128.88	7	0.23	1506	0.2624	7	0.2315	19	0.2346	1261	0.832	0.254	180
3	26.7	162.48	7	0.26	1885	0.2079	7	0.2602	19	0.2634	1592	0.66	0.201	200
2	33.6	204.88	7	0.29	2361	0.1649	7	0.2921	19	0.2957	2006	0.523	0.159	230
1	42.4	258.44	7	0.33	2959	0.1308	19	0.3319	37	0.3331	2531	0.415	0.126	270
1/0	53.5	325.84	7	0.37	3706	0.1036	19	0.3728	37	0.3740	3190	0.329	0.100	310
2/0	67.4	410.84	7	0.41	4641	0.0823	19	0.4185	37	0.4197	4023	0.261	0.080	360
3/0	85	518.02	7	0.46	5811	0.0652	19	0.4701	37	0.4713	5075	0.207	0.063	420
4/0	107	653.22	7	0.52	7277	0.0518	19	0.5276	37	0.5295	6168	0.164	0.050	480
250	127	772.09	19	0.57	8836	0.0439	37	0.5756	61	0.5760	7560	0.139	0.042	540
300	152	925.98	19	0.63	10741	0.0366	37	0.6303	61	0.6311	9072	0.116	0.035	610
350	177	1080.53	19	0.68	12200	0.0314	37	0.6807	61	0.6819	10582	0.099	0.030	670
400	203	1235.08	19	0.73	13951	0.0274	37	0.7280	61	0.7287	11620	0.087	0.027	730
450	228	1388.96	37	0.77	15900	0.0244	37	0.7720	61	0.7732	13080	0.077	0.023	780
500	253	1544.19	37	0.81	17551	0.0219	37	0.8138	61	0.8150	14531	0.069	0.021	840
550	279	1698.07	37	0.85	19310	0.0198	61	0.8547	91	0.8555	16629	0.063	0.019	880
600	304	1852.62	37	0.89	21061	0.0183	61	0.8925	91	0.8929	18139	0.058	0.018	940
650	329	2007.18	61	0.93	22970	0.0168	61	0.9291	91	0.9299	18889	0.053	0.016	990
700	355	2161.06	61	0.96	24740	0.0155	61	0.9642	91	0.9650	20340	0.05	0.015	1040
750	380	2315.61	61	1.00	26510	0.0146	61	0.9976	91	0.9988	21790	0.046	0.014	1090
800	405	2470.16	61	1.03	28270	0.0137	61	1.0307	91	1.0315	23250	0.043	0.013	1130
900	456	2778.60	61	1.09	31590	0.0122	61	1.0933	91	1.0941	26149	0.039	0.012	1220
1000	507	3087.70	61	1.15	35099	0.0110	61	1.1524	91	1.1531	29059	0.035	0.011	1300

Note: Dimensions and weights are subject to manufacturing tolerances.
(1) These values are given as a reference.



BARE ALUMINUM WIRE AND CABLE TYPE AAC

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

Wires are manufactured in soft and hard-drawn tempers. Stranded cable is manufactured from 1350-H19 aluminum wires, concentrically stranded in Classes A and AA in hard-drawn Temper.

APPLICATIONS

- Wires: Bare solid aluminum tie wire is generally used to secure a bare overhead conductor to a pin type insulator
- Cables: Overhead transmission and distribution lines

FEATURES

- Low weight
- Good electrical conductivity
- Long life
- High flexibility and malleability (soft-drawn wires only)
- Good mechanical strength (hard-drawn wires only)

Preferred max. operating temp:
75°C

Packaging:
- Coils (wires only)
- Wooden reels

Manufacturing range:
- Wire: 10 AWG to 4 AWG
- Cable: 6 AWG to 1750 kcmil

Standards:
- ASTM B230
- ASTM B231
- ASTM B400

DIMENSIONS AND FEATURES OF SOLID WIRES

Size	Cross-sectional area		Nominal wire diameter	Theoretical weight	Rated Strength	Ampacity	DC electrical resistance at 20°C	Equivalent copper gauge
AWG	mm²	in²	in	kg/km	kgf	Amps	ohm/kft	AWG
10	5.26	0.00815	0.1020	14.2	96	-	1.631	12
9	6.63	0.01028	0.1146	17.9	119	-	1.300	11
8	8.37	0.01297	0.1283	22.6	147	70	1.030	10
7	10.6	0.01643	0.1445	28.5	182	85	0.817	9
6	13.3	0.02062	0.1622	35.9	224	104	0.648	8
5	16.8	0.02604	0.1819	45.3	283	120	0.514	7
4	21.2	0.03286	0.2043	57.2	357	138	0.408	6

BARE ALUMINUM WIRE AND CABLE
TYPE AAC

KOBREX CONDUCTORES ELÉCTRICOS®

DIMENSIONS AND FEATURES OF STRANDED CONDUCTORS										
Code Word	Size	Cross-sectional area	Strands	Stranding Class	Nominal wire diameter	Approx. overall diameter	Approx. weight	Rated Strength	Ampacity	DC electrical resistance at 20ºC
	AWG/kcmil	mm²			in	in	lb/kft	lbf	Amps	ohm/kft
PEACHBELL	6	13.3	7	A	0.0610	0.1839	25	568.79	103	0.6580
ROSE	4	21.2	7	A	0.0772	0.2319	39	878.97	138	0.4140
IRIS	2	33.6	7	AA, A	0.0972	0.2921	62	1346.57	185	0.2600
PANSY	1	42.4	7	AA	0.1094	0.3280	78	1641.10	214	0.2070
POPPY	1/0	53.5	7	AA, A	0.1228	0.3681	99	1987.23	247	0.1640
ASTER	2/0	67.4	7	AA, A	0.1378	0.4142	125	2495.17	286	0.1300
PHLOX	3/0	85	7	AA, A	0.1547	0.4642	157	3034.85	331	0.1030
OXLIP	4/0	107	7	AA, A	0.1740	0.5220	198	3820.57	383	0.0817
SNEEZEWORT	250	127	7	AA	0.1890	0.5669	234	4517.23	425	0.0691
VALERIAN	250	127	19	A	0.1146	0.5740	234	4653.47	426	0.0691
DAISY	266,8	135	7	AA	0.1953	0.5858	250	4810.44	443	0.0648
LAUREL	266,8	135	19	A	0.1185	0.5921	250	4968.07	444	0.0648
PEONY	300	152	19	A	0.1256	0.6280	281	5463.00	478	0.0576
TULIP	336,4	171	19	A	0.1331	0.6650	315	6137.17	513	0.0514
DAFFODIL	350	177	19	A	0.1358	0.6791	328	6384.30	526	0.0494
CANNA	397,5	201	19	AA, A	0.1445	0.7228	373	7103.88	570	0.0435
GOLDENTUFT	450	228	19	AA	0.1539	0.7689	422	7868.22	616	0.0384
COSMOS	477	242	19	AA	0.1583	0.7921	447	8317.74	639	0.0362
SYRINGA	477	242	37	A	0.1134	0.7949	447	8677.53	639	0.0362
ZINNIA	500	253	19	AA	0.1622	0.8110	469	8542.60	658	0.0346
HYACINTH	500	253	37	AA	0.1161	0.8142	469	9104.56	658	0.0346
DAHLIA	556,5	282	19	AA	0.1713	0.8559	522	9733.31	703	0.0311
MISTLETOE	556,5	282	37	AA	0.1224	0.8579	522	9958.18	704	0.0311
MEADOWSWEET	600	304	37	AA	0.1272	0.8909	562	10676.88	738	0.0228
ORCHID	636	322	37	AA, A	0.1311	0.9181	596	11329.44	765	0.0272
HEUCHERA	650	329	37	AA	0.1327	0.9280	609	11622.43	775	0.0266
VERBENA	700	354	37	AA	0.1374	0.9630	656	12453.79	812	0.0247
FLAG	700	355	61	A	0.1071	1.1610	656	12836.50	812	0.0247
VIOLET	715,5	363	37	AA	0.1390	0.9728	671	12746.56	823	0.0242
NASTURTIUM	715,5	363	61	AA	0.1083	0.9752	671	13128.39	823	0.0242
PETUNIA	740.8	380	37	AA	0.1425	0.9969	703	13172.49	847	0.0230
CATTAIL	750	380	61	AA	0.1110	0.9980	703	13555.64	847	0.0230
ARBUTUS	795	403	37	AA	0.1465	1.0260	745	13892.95	878	0.0217
LILAC	795	403	61	A	0.1142	1.0272	745	14342.91	879	0.0217

BARE ALUMINUM WIRE AND CABLE
TYPE AAC

KOBREX CONDUCTORES ELÉCTRICOS®

DIMENSIONS AND FEATURES OF CABLES										
Code Word	Size	Cross-sectional area	No. of wires	Stranding Class	Nominal wire diam-eter	Approx. overall diameter	Approx. weight	Breaking load	Ampacity (1)	DC electrical resistance at 20°C (1)
	AWG/kcmil	mm²			in	in	lb/kft	lbf	amps	ohm/kft
COCKSCOMB	900	456	37	AA	0.1559	1.0921	844	15376.64	948	0.0192
SNAPDRAGON	900	456	61	AA	0.1217	1.0929	844	15916.33	948	0.0192
MAGNOLIA	954	484	37	AA	0.1606	1.1240	894	16320.65	982	0.0181
GOLDENROD	954	484	61	A	0.1252	1.1252	894	16860.34	983	0.0181
HAWKWEED	1000	507	37	AA	0.1646	1.1512	937	17130.18	1010	0.0173
CAMELIA	1000	506	61	AA	0.1280	1.1520	937	17601.53	1011	0.0173
BLUEBELL	1033,5	523	37	AA	0.1669	1.1701	969	17713.96	1031	0.0167
LARKSPUR	1033,5	524	61	AA	0.1303	1.1709	969	18276.35	1032	0.0167
MARIGOLD	1113	564	61	AA, A	0.1350	1.2161	1043	19625.35	1079	0.0155
HAWTHORN	1192,5	604	61	AA, A	0.1398	1.2579	1118	21018.66	1124	0.0145
NARCISSUS	1272	645	61	AA, A	0.1445	1.3000	1192	22052.61	1169	0.0136
COLUMBINE	1351,5	684	61	AA, A	0.1488	1.3402	1267	23379.78	1212	0.0128
CARNATION	1431	725	61	AA, A	0.1531	1.3780	1341	24277.06	1253	0.0121
GLADIOULUS	1510,5	766	61	A	0.1575	1.4161	1416	25626.27	1294	0.0144
COREOPSIS	1590	805	61	AA	0.1614	1.4138	1490	26975.49	1333	0.0109
JESSAMINE	1750	887	61	AA	0.1693	1.5240	1640	29673.92	1408	0.0099

Note: Dimensions and weights are subject to manufacturing tolerances.
(1) For a conductor temp. of 75°C, an ambient temp. of 25°C, wind speed of 2ft/s, with a relative emissivity of the conductor surface of 0.5 and exposed to the sun.



ACSR BARE ALUMINUM CONDUCTOR STEEL REINFORCED

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

Bare 1350-EC aluminum conductor, concentrically stranded around a galvanized-steel reinforcing core consisting of either a single steel wire or stranded steel wires.

APPLICATIONS

Overhead transmission and distribution lines with span between poles or towers.

FEATURES

- Low weight
- Good electrical conductivity
- High mechanical strength

Preferred max. operating temp:
75°C

Packaging:
- Wooden reels

Manufacturing range:
- 4 AWG to 1590 kcmil

Standards:
- ASTM B230
- ASTM B231
- ASTM B232
- ASTM B498
- ASTM B500
- RUS

DIMENSIONS AND FEATURES

Code Word	Size	Stranding		Nominal wire diameter		Approx. overall diameter	Approx. weight	Material Content		Rated Strength	Ampacity (1)	DC electrical resis-tance at 20°C
	AWG/ kcmil	Al	Steel	Al	Steel			%	%			
		Al	Steel	in	in	in	lb/kit	Al	Steel	lbf	amps	ohm/kft
SWAN	4	6	1	0.083	0.083	0.250	57	67.87	32.12	1861	140	0.4030
SWANATE	4	7	1	0.077	0.103	0.257	67	58.1	41.9	2359	140	0.3990
SPARROW	2	6	1	0.105	0.105	0.316	91	67.9	32.1	2851	184	0.2540
SPARATE	2	7	1	0.097	0.130	0.325	107	58.12	41.88	3459	184	0.2510
ROBIN	1	6	1	0.118	0.118	0.354	115	67.88	32.12	3549	212	0.2010
RAVEN	1/0	6	1	0.133	0.133	0.398	145	67.89	32.11	4381	242	0.1590
QUAIL	2/0	6	1	0.149	0.149	0.447	183	67.88	32.12	5311	276	0.1260
PIGEON	3/0	6	1	0.167	0.167	0.502	230	67.87	32.13	6620	315	0.1000
PENGUIN	4/0	6	1	0.188	0.188	0.563	291	67.89	32.12	8351	357	0.0793
WAXWING	266.8	18	1	0.122	0.122	0.609	289	86.43	13.57	6881	449	0.0643
PARTRIDGE	266.8	26	7	0.101	0.079	0.642	367	68.51	31.49	11301	475	0.0637

ACSR BARE ALUMINUM CONDUCTOR STEEL REINFORCED

KOBREX CONDUCTORES ELÉCTRICOS®

DIMENSIONS AND FEATURES												
Code Word	Size	Stranding		Nominal wire diameter		Approx. overall diameter	Approx. weight	Material Content		Rated Strength	Ampacity (1)	DC electrical resis-tance at 20°C
	AWG/ kcmil			Al	Steel			%	%			
		Al	Steel	in	in	in	lb/kit	Al	Steel	lbf	amps	ohm/kft
OSTRICH	300	26	7	0.107	0.083	0.680	412	68.51	31.49	12701	492	0.0567
MERLIN	336.4	18	1	0.137	0.137	0.684	365	86.43	13.57	8680	519	0.0510
LINNET	336.4	26	7	0.114	0.089	0.720	462	68.5	31.5	14101	529	0.0505
ORIOLE	336.4	30	7	0.106	0.106	0.741	526	60.35	39.65	17299	535	0.0502
CHICKADEE	397.5	18	1	0.148	0.148	0.743	431	86.43	13.57	9941	576	0.0432
BRANT	397.5	24	7	0.129	0.086	0.772	511	73.21	26.79	14599	584	0.0430
IBIS	397.5	26	7	0.124	0.096	0.783	546	68.51	31.49	16301	587	0.0428
LARK	397.5	30	7	0.115	0.115	0.806	622	60.35	39.65	20300	594	0.0425
PELICAN	477	18	1	0.163	0.163	0.814	517	86.45	13.56	11799	646	0.0360
FLICKER	477	24	7	0.141	0.094	0.846	614	73.21	26.79	17200	655	0.0358
HAWK	477	26	7	0.135	0.105	0.858	656	68.51	31.49	19500	659	0.0356
HEN	477	30	7	0.126	0.126	0.883	746	60.35	39.65	23801	666	0.0354
OSPREY	556.5	18	1	0.176	0.176	0.879	603	86.43	13.57	13699	711	0.0308
PARAKEET	556.5	24	7	0.152	0.102	0.914	716	73.21	26.79	19800	721	0.0307
DOVE	556.5	26	7	0.146	0.114	0.927	765	68.51	31.49	22599	726	0.0306
EAGLE	556.5	30	7	0.136	0.136	0.953	871	60.35	39.65	27800	734	0.0303
PEACOCK	605	24	7	0.159	0.106	0.953	779	73.2	26.8	21601	760	0.0282
SQUAB	605	26	7	0.152	0.119	0.966	832	68.51	31.49	24299	765	0.0281
WOOD DUCK	605	30	7	0.142	0.142	0.994	946	60.35	39.65	28900	774	0.0279
TEAL	605	30	19	0.142	0.085	0.994	939	60.85	39.15	30000	773	0.0279
KINGBIRD	636	18	1	0.188	0.188	0.940	690	86.43	13.57	15699	773	0.0270
SWIFT	636	36	1	0.133	0.133	0.930	643	92.72	7.28	13691	769	0.0271
ROOK	636	24	7	0.163	0.109	0.977	818	73.22	26.78	22000	784	0.0268
GROSBEAK	636	26	7	0.156	0.122	0.991	874	68.51	31.49	25201	789	0.0267
SCOTER	636	30	7	0.146	0.146	1.019	995	60.35	39.65	30399	798	0.0256
EGRET	636	30	19	0.146	0.087	1.019	987	60.85	39.15	31499	798	0.0266
FLAMINGO	666.6	24	7	0.167	0.111	1.000	857	73.21	26.79	23699	807	0.0256
GANNET	666.6	26	7	0.160	0.124	1.014	916	68.51	31.49	26400	812	0.0255
STILT	715.5	24	7	0.173	0.115	1.036	920	73.21	26.79	25501	844	0.0239
STARLING	715.5	26	7	0.166	0.129	1.051	984	68.51	31.49	28400	849	0.0238
REDWING	715.5	30	19	0.154	0.093	1.081	1110	60.85	39.15	34599	859	0.0236
COOT	795	36	1	0.148	0.148	1.040	804	92.72	7.28	16711	884	0.0217
DRAKE	795	26	7	0.175	0.136	1.107	1093	68.51	31.49	31499	907	0.0214
TERN	795	45	7	0.133	0.089	1.063	895	83.67	16.33	22099	887	0.0216
CONDOR	795	54	7	0.121	0.121	1.092	1023	73.21	26.79	28199	889	0.0215
MALLARD	795	30	19	0.163	0.098	1.140	1234	60.86	39.14	38400	918	0.0213
RUDDY	900	45	7	0.141	0.094	1.131	1013	83.67	16.33	24401	958	0.0191

ACSR BARE ALUMINUM CONDUCTOR STEEL REINFORCED

KOBREX CONDUCTORES ELÉCTRICOS®

DIMENSIONS AND FEATURES												
Code Word	Size	Stranding		Nominal wire diameter		Approx. overall diameter	Approx. weight	Material Content		Rated Strength	Ampacity (1)	DC electrical resis-tance at 20°C
	AWG/ kcmil			Al	Steel			%	%			
		Al	Steel	in	in	in	lb/kit	Al	Steel	lbf	amps	ohm/kft
CANARY	900	54	7	0.129	0.129	1.162	1158	73.21	26.79	31901	961	0.0190
RAIL	954	45	7	0.146	0.097	1.165	1074	83.67	16.33	25900	993	0.0180
CARDINAL	954	54	7	0.133	0.133	1.196	1227	73.21	26.79	33799	996	0.0179
ORTOLAN	1033.5	45	7	0.152	0.101	1.212	1163	83.67	16.33	27701	1043	0.0167
CURLEW	1033.5	54	7	0.138	0.138	1.245	1330	73.21	26.79	36601	1047	0.0165
BLUEJAY	1113	45	7	0.157	0.105	1.258	1253	83.67	16.33	29800	1092	0.0155
FINCH	1113	54	19	0.144	0.086	1.292	1429	73.72	26.28	39099	1093	0.0154
BUNTING	1192.5	45	7	0.163	0.109	1.302	1343	83.67	16.33	32000	1139	0.0144
GRACKLE	1192.5	54	19	0.148	0.089	1.337	1531	73.72	26.28	41901	1140	0.0144
BITTERN	1272	45	7	0.168	0.112	1.345	1432	83.67	16.33	34101	1184	0.0135
PHEASANT	1272	54	19	0.154	0.092	1.381	1633	73.71	26.29	43600	1187	0.0135
DIPPER	1351.5	45	7	0.173	0.115	1.386	1521	83.67	16.33	36200	1229	0.0127
MARTIN	1351.5	54	19	0.158	0.095	1.424	1735	73.72	26.28	46299	1232	0.0127
BOBOLINK	1431	45	7	0.178	0.119	1.427	1611	83.67	16.33	38301	1272	0.0120
LAPWING	1590	45	7	0.188	0.125	1.504	1790	83.67	16.33	42200	1354	0.0108
FALCON	1590	54	19	0.172	0.103	1.544	2041	73.72	26.28	54500	1359	0.0108

Note: Dimensions and weights are subject to manufacturing tolerances.
(1) For a conductor temp. of 75°C, an ambient temp. of 25°C, wind speed of 2ft/s, with a relative emissivity of the conductor surface of 0.5 and exposed to the sun.



ACSR/AW BARE ALUMINUM CONDUCTOR WITH ALUMINUM-CLAD STEEL REINFORCED CORE

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

Bare 1350-EC aluminum conductor, concentrically stranded around an aluminum-clad steel reinforcing core consisting of either a single aluminum-clad steel wire or stranded aluminum-clad steel wires.

APPLICATIONS

Overhead transmission and distribution lines with span between poles or towers, located in areas with high corrosion and pollution problems such as coastal or industrial areas.

FEATURES

- Low weight
- Good electrical conductivity
- High mechanical strength
- Corrosion resistant

Preferred max. operating temp:
75°C

Packaging:
- Wooden reels

Manufacturing range:
- 4 AWG to 1590 kcmil

Standards:
- ASTM B230
- ASTM B232
- ASTM B502
- ASTM B549

DIMENSIONS AND FEATURES

Code Word	Size	Number of wires		Nominal wire diameter		Approx. overall diameter	Approx. weight	Rated Strength	Ampacity (1)	DC electrical resistance at 20°C
	AWG/kcmil	Al	Steel	Al	Steel					
				in	in	in	lb/kit	lbf	amps	ohm/kft
SWAN/AW	4	6	1	0.083	0.0835	0.2500	55	1779	145	0.3917
SWANATE/AW	4	7	1	0.077	0.1031	0.2571	63	2280	148	0.3814
SPARROW/AW	2	6	1	0.105	0.1051	0.3161	87	2760	194	0.2462
SPARATE/AW	2	7	1	0.097	0.1299	0.3252	100	3510	198	0.2396
ROBIN/AW	1	6	1	0.118	0.1181	0.3539	109	3450	225	0.1950
RAVEN/AW	1/0	6	1	0.133	0.1327	0.3980	138	4250	260	0.1547
QUAIL/AW	2/0	6	1	0.149	0.1488	0.4469	174	5130	301	0.1227
PIGEON/AW	3/0	6	1	0.167	0.1673	0.5020	219	6301	347	0.0975
PENGUIN/AW	4/0	6	1	0.188	0.1878	0.5630	277	7690	402	0.0773
WAXWING/AW	266.8	18	1	0.122	0.1217	0.6091	283	6821	451	0.0636
PARTRIDGE/AW	266.8	26	7	0.101	0.0787	0.6421	349	10800	465	0.0617
OSTRICH/AW	300	26	7	0.107	0.0835	0.6799	393	12099	500	0.0549
MERLIN/AW	336.4	18	1	0.137	0.1366	0.6839	357	8541	522	0.0504
LINNET/AW	336.4	26	7	0.114	0.0886	0.7201	440	13501	537	0.0490
ORIOLE/AW	336.4	30	7	0.106	0.1059	0.7409	494	16700	547	0.0479
CHICKADEE/AW	397.5	18	1	0.148	0.1484	0.7429	422	9780	580	0.0427
BRANT/AW	397.5	24	7	0.129	0.0858	0.7720	490	14101	592	0.0418
IBIS/AW	397.5	26	7	0.124	0.0961	0.7831	520	15800	597	0.0415
LARK/AW	397.5	30	7	0.115	0.1150	0.8059	584	19599	608	0.0406

ACSR/AW BARE ALUMINUM CONDUCTOR WITH ALUMINUM-CLAD STEEL REINFORCED CORE

KOBREX CONDUCTORES ELÉCTRICOS®

DIMENSIONS AND FEATURES										
Code Word	Size	Number of wires		Nominal wire diameter		Approx. overall diameter	Approx. weight	Rated Strength	Ampacity (1)	DC electrical resistance at 20ºC
	AWG/kcmil			Al	Steel					
		Al	Steel	in	in	in	lb/kit	lbf	amps	ohm/kft
PELICAN/AW	477	18	1	0.163	0.1630	0.8142	507	11499	651	0.0356
FLICKER/AW	477	24	7	0.141	0.0941	0.8461	589	16700	663	0.0349
HAWK/AW	477	26	7	0.135	0.1051	0.8579	624	18900	669	0.0345
HEN/AW	477	30	7	0.126	0.1260	0.8831	701	23400	682	0.0338
OSPREY/AW	556.5	18	1	0.176	0.1760	0.8791	591	13199	715	0.0305
PARAKEET/AW	556.5	24	7	0.152	0.1016	0.9142	687	19299	731	0.0299
DOVE/AW	556.5	26	7	0.146	0.1138	0.9272	728	21900	737	0.0296
EAGLE/AW	556.5	30	7	0.136	0.1362	0.9531	818	26799	751	0.0290
PEACOCK/AW	605	24	7	0.159	0.1059	0.9531	746	20999	770	0.0275
SQUAB/AW	605	26	7	0.152	0.1185	0.9661	792	23600	777	0.0259
TEAL/AW	605	30	19	0.142	0.0850	0.9941	883	28499	791	0.0267
KINGBIRD/AW	636	18	1	0.188	0.1882	0.9402	675	15000	778	0.0267
ROOK/AW	636	24	7	0.163	0.1087	0.9772	785	22000	794	0.0262
GROSBEAK/AW	636	26	7	0.156	0.1217	0.9909	832	24800	801	0.0259
FLAMINGO/AW	666.6	24	7	0.167	0.1110	1.0000	823	23100	818	0.0250
GANNET/AW	666.6	26	7	0.160	0.1244	1.0142	872	25999	825	0.0247
STARLING/AW	715.5	26	7	0.166	0.1291	1.0512	936	27500	863	0.0230
REDWING/AW	715.5	30	19	0.154	0.0925	1.0811	1044	33400	878	0.0226
CUCKOO/AW	715.5	24	7	0.182	0.1213	1.0921	981	27500	913	0.0209
DRAKE/AW	795	26	7	0.175	0.1358	1.1071	1040	30501	922	0.0207
TERN/AW	795	45	7	0.133	0.0886	1.0630	873	21499	970	0.0213
CONDOR/AW	795	54	7	0.121	0.1213	1.0921	981	27800	913	0.0209
MALLARD/AW	795	30	19	0.163	0.0976	1.1402	1160	37099	938	0.0203
RUDDY/AW	900	45	7	0.141	0.0945	1.1311	988	23999	970	0.0189
CANARY/AW	900	54	7	0.129	0.1291	1.1618	1111	30999	986	0.0185
RAIL/AW	954	45	7	0.146	0.0972	1.1650	1047	25399	1003	0.0178
CARDINAL/AW	954	54	7	0.133	0.1331	1.1961	1177	32899	1022	0.0174
ORTOLAN/AW	1033.5	45	7	0.152	0.1012	1.2118	1134	27200	1054	0.0164
CURLEW/AW	1033.5	54	7	0.138	0.1382	1.2449	1275	35199	1074	0.0161
BLUEJAY/AW	1113	45	7	0.157	0.1047	1.2579	1222	29299	1103	0.0161
PHEASANT/AW	1272	54	19	0.154	0.0921	1.3811	1568	42399	1216	0.0131
BOBOLINK/AW	1431	45	7	0.178	0.1189	1.4272	1571	37599	1283	0.0119
LAPWING/AW	1590	45	7	0.188	0.1252	1.5039	1745	41799	1365	0.0107

Note: Dimensions and weights are subject to manufacturing tolerances.(1) For a conductor temp. of 75°C, an ambient temp. of 25°C, wind speed of 2ft/s, with a relative emissivity of the conductor surface of 0.5 and exposed to the sun.



KOBREX SECONDARY DISTRIBUTION URD CABLE 600 V 90°C

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

- Conductor: Strander compressed 1350-H16/H26 (3/4 Hard) aluminum
- Insulation: Cross Linked Polyethylene (XLPE)
- Neutral: Cross Linked Polyethylene (XLPE) with three Yellow Extruded Stripes (YES)

APPLICATIONS

- Secondary distribution and underground service at 600V, can be installed direct burial or in ducts

PERFORMANCE

- Sun Light Resistant
- Single conductor are UL listed as type USE-2

Maximum operating voltage:
- 600 V

Preferred max. operating temp:
- Dry and wet locations: 90°C
- In emergency: 130°C
- Short circuit: 250°C

Packaging:
- NR - Non-Returnable Wood Reels
- RM - Returnable Metal, Flat Bar Ties
- RMT - Returnable Metal, One Beam Ties

Manufacturing range:
- Aluminum: 6 AWG to 750 kcmil
- Copper: 8 AWG to 750 kcmil

Standards:
- UL 854
- ASTM B231
- ASTM B609

SINGLE 600V SECONDARY URD ALUMINUM, XLPE INSULATED						
Single	Phase Conductor				XLPE Insulation	
Code Word	Size	Wires	Insulation Thickness	Overall Diameter	Code Word Suffix	Approx. Weight
	"AWG or kcmil"	Qty	mils	in	Suffix	lb/kft
Princeton	6	7	60	0.31	/XLP	45
Mercer	4	7	60	0.35	/XLP	65
Clemson	2	7	60	0.41	/XLP	95
Kenyon	1	19	80	0.49	/XLP	125
Harvard	1/0	19	80	0.53	/XLP	150
Yale	2/0	19	80	0.57	/XLP	183
Tufts	3/0	19	80	0.62	/XLP	222
Beloit	4/0	19	80	0.68	/XLP	270
Hofstra	250	37	95	0.76	/XLP	325
Gonzaga	300	37	95	0.81	/XLP	377
Rutgers	350	37	95	0.86	/XLP	430
Dartmouth	400	37	95	0.91	/XLP	485
Brown	450	37	95	0.95	/XLP	540
Emory	500	37	95	0.99	/XLP	592
Duke	600	61	110	1.10	/XLP	712
Furman	700	61	110	1.17	/XLP	815
Sewanee	750	61	110	1.20	/XLP	870

DUPLEX 600V SECONDARY TYPE URD ALUMINUM CABLE, XLPE INSULATED										
Duplex	Phase Conductor			Neutral Conductor			Cable OD		XLPE Insulation	
Code Word	Size	Wires	Insulation Thickness	Size	Wires	Insulation Thickness	Single Phase	Complete Cable	Code Word	Approx. Weight
	"AWG or kcmil"	Qty	mils	"AWG or kcmil"	Qty	mils	in	in	Suffix	"Net Weight lb/kft"
Alcorn	8	1	60	8	1	60	0.25	0.50	/XLP/EYS	62.2
Claflin	6	7	60	6	7	60	0.31	0.61	/XLP/EYS	92.8
Delgado	4	7	60	4	7	60	0.35	0.70	/XLP/EYS	131.7
Cedarcrest	2	7	60	4	7	60	0.41	0.82	/XLP/EYS	161.4
Everett	2	7	60	2	7	60	0.41	0.82	/XLP/EYS	191.2
Findlay	2/0	19	80	2/0	19	80	0.57	1.15	/XLP/EYS	372.0
Hanover	4/0	19	80	4/0	19	80	0.68	1.36	/XLP/EYS	552.1
Glenville	350	37	95	350	37	95	0.86	1.72	/XLP/EYS	880.2

KOBREX SECONDARY DISTRIBUTION URD CABLE 600 V 90°C

KOBREX CONDUCTORES ELÉCTRICOS®

TRIPLEX 600V SECONDARY TYPE URD ALUMINUM CABLE, XLPE INSULATED										
Code Word	Phase Conductor			Neutral Conductor			Cable OD		XLPE Insulation	
	Size	Wires	Insulation Thickness	Size	Wires	Insulation Thickness	Single Phase	Complete Cable	Code Word	Approx. Weight
	"AWG or kcmil"	Qty	mils	"AWG or kcmil"	Qty	mils	in	in	Suffix	"Net Weight lb/kft"
Erskine	6	7	60	6	7	60	0.31	0.66	/XLP/EYS	139
Vassar	4	7	60	4	7	60	0.35	0.76	/XLP/EYS	198
Stephens	2	7	60	4	7	60	0.41	0.88	/XLP/EYS	257
Ramapo	2	7	60	2	7	60	0.41	0.88	/XLP/EYS	287
Grossmont	1	19	80	1	19	80	0.49	1.06	/XLP/EYS	383
Brenau	1/0	19	80	2	7	60	0.53	1.14	/XLP/EYS	402
Bergen	1/0	19	80	1/0	19	80	0.53	1.14	/XLP/EYS	460
Fisk	2/0	19	80	2	7	60	0.57	1.24	/XLP/EYS	468
Converse	2/0	19	80	1	19	80	0.57	1.24	/XLP/EYS	500
Shaw	2/0	19	80	1/0	19	80	0.57	1.24	/XLP/EYS	525
Hunter	2/0	19	80	2/0	19	80	0.57	1.24	/XLP/EYS	558
Calvert	3/0	19	80	2	7	60	0.62	1.34	/XLP/EYS	547
Chase	3/0	19	80	1	19	80	0.62	1.34	/XLP/EYS	579
Hollins	3/0	19	80	1/0	19	80	0.62	1.34	/XLP/EYS	605
Rockland	3/0	19	80	3/0	19	80	0.62	1.34	/XLP/EYS	677
Coburn	4/0	19	80	1	19	80	0.68	1.47	/XLP/EYS	680
Molloy	4/0	19	80	1/0	19	80	0.68	1.47	/XLP/EYS	705
Sweetbriar	4/0	19	80	2/0	19	80	0.68	1.47	/XLP/EYS	738
Monmouth	4/0	19	80	4/0	19	80	0.68	1.47	/XLP/EYS	828
Aquinas	250	37	95	2/0	19	80	0.76	1.63	/XLP/EYS	844
Pratt	250	37	95	3/0	19	80	0.76	1.63	/XLP/EYS	884
Yeshiva	250	37	95	250	37	95	0.76	1.63	/XLP/EYS	987
Allen	300	37	95	2/0	19	80	0.81	1.75	/XLP/EYS	956
Greenville	350	37	95	1/0	19	80	0.86	1.85	/XLP/EYS	1034
Gloucester	350	37	95	3/0	19	80	0.86	1.85	/XLP/EYS	1106
Wesleyan	350	37	95	4/0	19	80	0.86	1.85	/XLP/EYS	1156
Newark	350	37	95	350	37	95	0.86	1.85	/XLP/EYS	1320
Old Dominion	500	37	95	4/0	19	80	0.99	2.13	/XLP/EYS	1483
Holyoke	500	37	95	300	37	95	0.99	2.13	/XLP/EYS	1592
Rider	500	37	95	350	37	95	0.99	2.13	/XLP/EYS	1647
Westchester	500	37	95	500	37	95	0.99	2.13	/XLP/EYS	1811
Villanova	750	61	110	350	37	95	1.20	2.58	/XLP/EYS	2215
Voorhees	750	61	110	450	37	95	1.20	2.58	/XLP/EYS	2324
Fairfield	750	61	110	500	37	95	1.20	2.58	/XLP/EYS	2379
Seton Hall	750	61	110	750	61	110	1.20	2.58	/XLP/EYS	2662

QUADRUPLEX 600V SECONDARY TYPE URD ALUMINUM CABLE, XLPE INSULATED										
	Phase Conductor			Neutral Conductor			Cable OD		XLPE Insulation	
Code Word	Size	Wires	Insulation Thickness	Size	Wires	Insulation Thickness	Single Phase	Complete Cable	Code Word	Approx. Weight
	AWG or kcmil	Qty	mils	AWG or kcmil	Qty	mils	in	in	Suffix	lb/kft
Tulsa	4	7	60	4	7	60	0.35	0.85	/XLP/EYS	263
Miami	2	7	60	6	7	60	0.41	0.99	/XLP/EYS	333
Dyke	2	7	60	4	7	60	0.41	0.99	/XLP/EYS	353
Wittenberg	2	7	60	2	7	60	0.41	0.99	/XLP/EYS	382
Notre Dame	1/0	19	80	2	7	60	0.53	1.28	/XLP/EYS	556
Purdue	1/0	19	80	1/0	19	80	0.53	1.28	/XLP/EYS	614
Syracuse	2/0	19	80	1	19	80	0.57	1.39	/XLP/EYS	686
Lafayette	2/0	19	80	2/0	19	80	0.57	1.39	/XLP/EYS	744
Swarthmore	3/0	19	80	1/0	19	80	0.62	1.51	/XLP/EYS	831
Davidson	3/0	19	80	3/0	19	80	0.62	1.51	/XLP/EYS	903
Mc Pherson	4/0	19	80	2	7	60	0.68	1.64	/XLP/EYS	924
Doane	4/0	19	80	1/0	19	80	0.68	1.64	/XLP/EYS	981
Wake Forest	4/0	19	80	2/0	19	80	0.68	1.64	/XLP/EYS	1014
Earlham	4/0	19	80	4/0	19	80	0.68	1.64	/XLP/EYS	1104
Rust	250	37	95	3/0	19	80	0.76	1.83	/XLP/EYS	1213
Palomar	250	37	95	250	37	95	0.76	1.83	/XLP/EYS	1316
Slippery Rock	350	37	95	4/0	19	80	0.86	2.08	/XLP/EYS	1596
Niagara	350	37	95	350	37	95	0.86	2.08	/XLP/EYS	1760
Morehouse	500	37	95	300	37	95	0.99	2.39	/XLP/EYS	2196
Wofford	500	37	95	350	37	95	0.99	2.39	/XLP/EYS	2251
Marshall	500	37	95	500	37	95	0.99	2.39	/XLP/EYS	2415
Westminster	750	61	110	350	37	95	1.20	2.89	/XLP/EYS	3102
Windham	750	61	110	500	37	95	1.20	2.89	/XLP/EYS	3266
Tabor	750	61	110	750	61	110	1.20	2.89	/XLP/EYS	3550

Note: Dimensions and weights are subject to manufacturing tolerances.



SERVICE DROP ALUMINUM 600 V 75°C / 90°C

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

Phase:
1350 aluminum alloy conductor, with H-19 wires (hard drawn temper) stranded insulated with black weather resistant XLPE (90°C) or PE (75°C).

AAC Neutral:
1350 aluminum alloy conductor, with H-19 wires (hard drawn temper) stranded.

ACSR Neutral:
1350 aluminum alloy conductor, with H-19 wires (hard drawn temper) stranded over a core with one or more class "A" galvanized steel wires.

APPLICATIONS

Aerial power supply from utility lines transformer to consumer service entrance installation in low voltage.

TECHNICAL DATA

Maximum operating voltage:
- 600 V

Preferred max. operating temp:
- 90°C XLP
- · 75°C PE

Packaging:
- Colis
- Wooden reels.

Manufacturing range:
- 6 AWG to 336.4 kcmil

Standards:
- ASTM B-230
- ASTM B-231
- ASTM B-232
- ASTM B-399
- ICEA S-76-474

AAC CONDUCTOR AND NEUTRAL MESSENGER											
Code Word	Phase Conductor				Neutral Conductor			Weight		Ampacity	
	Size	Number of Wires	Insulation Thickness	Aprox. Cable OD	Size	Number of Wires	Rated Strength	PE	XLPE	PE 75°C	XLPE 90°C
	AWG or kcmil		mils	in	AWG or kcmil		lb	lb/kft	lb/kft		
Pekingese	6	1	45	0.44	6	7	563	62	63	70	85
Collie	6	7	45	0.45	6	7	563	63	66	70	85
Dachshund	4	1	45	0.53	4	7	563	93	72	90	115
Spaniel	4	7	45	0.56	4	7	881	96	99	90	115
Doberman	2	7	45	0.69	2	7	881	146	106	120	150
Malemute	1/0	19	60	0.87	1/0	7	1990	234	240	160	205

KOBREX CONDUCTORES ELÉCTRICOS®

AAC CONDUCTOR AND ACSR NEUTRAL MESSENGER											
	Phase Conductor				Neutral Conductor			Weight		Ampacity	
Code Word	Size	Number of Wires	Insulation Thickness	Aprox. Cable OD	Size	Number of Wires Al/Steel	Rated Strength	PE	XLPE	PE 75°C	XLPE 90°C
	AWG or kcmil		mils	in	AWG or kcmil			lb/kft	lb/kft		
Setter	6	1	45	0.26	6	6/1	1190	73	75	70	85
Shepherd	6	7	45	0.28	6	6/1	1190	75	78	70	85
Eskimo	4	1	45	0.30	4	6/1	1860	112	114	90	115
Terrier	4	7	45	0.33	4	6/1	1860	114	120	90	115
Chow	2	7	45	0.39	2	6/1	2850	175	183	120	150
Bull	1/0	19	60	0.50	1/0	6/1	4380	280	290	160	205

AAC CONDUCTOR AND NEUTRAL MESSENGER											
	Phase Conductor				Neutral Conductor			Weight		Ampacity	
Code Word	Size	Number of Wires	Insulation Thickness	Aprox. Cable OD	Size	Number of Wires Al/Steel	Rated Strength	PE	XLPE	PE 75°C	XLPE 90°C
	AWG or kcmil		mils	in	AWG or kcmil		lb	lb/kft	lb/kft		
Haliotis	6	1	45	0.53	6	7	563	100	103	70	85
Patella	6	7	45	0.57	6	7	563	102	105	70	85
Fusus	4	1	45	0.62	4	7	881	148	152	90	115
Oyster	4	7	45	0.67	4	7	881	152	155	90	115
Mussel	2	7	45	0.80	4	7	881	205	208	120	150
Clam	2	7	45	0.80	2	7	1350	228	233	120	150
Snail	1/0	7	60	1.02	2	7	1350	330	336	160	205
Murex	1/0	7	60	1.02	1/0	7	1990	367	375	160	205
Purpura	1/0	19	60	1.03	1/0	7	1990	362	370	160	205
Nassa	2/0	7	60	1.11	2/0	7	2510	453	460	185	235
Melita	3/0	19	60	1.23	3/0	19	3310	564	585	215	275
Portunus	4/0	19	60	1.35	4/0	19	4022	685	694	245	315
Nannynose	336.4	19	80	1.72	336.4	19	6148	1096	1110	325	420

SERVICE DROP ALUMINUM 600 V 75°C / 90°C

KOBREX CONDUCTORES ELÉCTRICOS®

ACSR FULL SIZE NEUTRAL MESSENGER											
	Phase Conductor				Neutral Conductor			Weight		Ampacity	
Code Word	Size	Number of Wires	Insulation Thickness	Aprox. Cable OD	Size	Number of Wires Al/Steel	Rated Strength	PE	XLPE	PE 75°C	XLPE 90°C
	AWG or kcmil		mils	in	AWG or kcmil		lb	lb/kft	lb/kft		
Paludina	6	1	45	0.53	6	6/1	1190	112	114	70	85
Voluta	6	7	45	0.57	6	6/1	1190	113	115	70	85
Whelk	4	1	45	0.62	4	6/1	1860	161	163	90	115
Periwinkle	4	7	45	0.68	4	6/1	1860	170	172	90	115
Conch	2	7	45	0.80	2	6/1	2850	257	262	120	150
Neritina	1/0	7	60	1.03	1/0	6/1	4380	415	420	160	205
Cenia	1/0	19	60	1.03	1/0	6/1	4380	408	415	160	205
Runcina	2/0	7	60	1.11	2/0	6/1	5310	512	520	185	235
Triton	2/0	19	60	1.12	2/0	6/1	5310	505	511	185	235
Cherrystone	3/0	7	60	1.22	3/0	6/1	6620	644	656	215	275
Mursia	3/0	19	60	1.23	3/0	6/1	6620	626	633	215	275
Razor	4/0	7	60	1.35	4/0	6/1	8350	800	814	245	315
Zuzara	4/0	19	60	1.35	4/0	6/1	8350	777	785	245	315
Limpet	336.4	19	80	1.72	336.4	18/1	8680	1147	1161	325	420

ACSR REDUCED SIZE NEUTRAL MESSENGER											
	Phase Conductor				Neutral Conductor			Weight		Ampacity	
Code Word	Size	Number of Wires	Insulation Thickness	Aprox. Cable OD	Size	Number of Wires Al/Steel	Rated Strength	PE	XLPE	PE 75°C	XLPE 90°C
	AWG or kcmil		mils	in	AWG or kcmil		lb	lb/kft	lb/kft		
Scallop	4	1	45	0.62	6	6/1	1190	140	142	90	115
Strombus	4	7	45	0.67	6	6/1	1190	148	151	90	115
Cockle	2	7	45	0.80	4	6/1	1860	224	229	120	150
Janthina	1/0	7	60	1.02	2	6/1	2850	360	366	160	205
Ranella	1/0	19	60	1.03	2	6/1	2850	355	361	160	205
Cavolinia	2/0	7	60	1.12	1	6/1	3550	445	452	185	235
Clio	2/0	19	60	1.12	1	6/1	3550	437	445	185	235
Sanddollar	3/0	7	60	1.22	1/0	6/1	4380	557	570	215	275
Aega	3/0	19	60	1.23	1/0	6/1	4380	553	565	215	275
Cuttlefish	4/0	7	60	1.33	2/0	6/1	5310	690	705	245	315
Cerapus	4/0	19	60	1.35	2/0	6/1	5310	670	678	245	315
Cowry	336.4	19	80	1.72	4/0	6/1	8350	1092	1135	325	420
Zuzara	4/0	19	60	1.35	4/0	6/1	8350	777	785	245	315
Limpet	336.4	19	80	1.72	336.4	18/1	8680	1147	1161	325	420

SERVICE DROP ALUMINUM 600 V 75°C / 90°C

KOBREX CONDUCTORES ELÉCTRICOS®

AAC CONDUCTOR AND NEUTRAL MESSENGER											
Code Word	Phase Conductor				Neutral Conductor			Weight		Ampacity	
	Size	Number of Wires	Insulation Thickness	Aprox. Cable OD	Size	Number of Wires Al/Steel	Rated Strength	PE	XLPE	PE 75°C	XLPE 90°C
	AWG or kcmil		mils	in	AWG or kcmil		lb	lb/kft	lb/kft		
Clydesdale	4	1	45	0.68	4	7	881	201	208	80	100
Pinto	4	7	45	0.73	4	7	881	207	223	80	100
Mustang	2	7	45	0.88	2	7	1350	312	333	105	135
Criollo	1/0	19	60	1.13	1/0	7	1990	504	529	140	180
Percheron	2/0	19	60	1.25	2/0	7	2510	620	649	160	205
Hanoverian	3/0	19	60	1.36	3/0	19	3310	765	799	185	235
Oldenburg	4/0	19	60	1.50	4/0	19	4020	945	986	210	275
Lippizaner	336.4	19	60	1.91	336.4	19	6145	1520	1546	280	370

ACSR NEUTRAL MESSENGER											
Code Word	Phase Conductor				Neutral Conductor			Weight		Ampacity	
	Size	Number of Wires	Insulation Thickness	Aprox. Cable OD	Size	Number of Wires Al/Steel	Rated Strength	PE	XLPE	PE 75°C	XLPE 90°C
	AWG or kcmil		mils	in	AWG or kcmil		lb	lb/kft	lb/kft		
Morochuca	6	1	45	0.58	6	6/1	1190	147	152	60	75
Chola	6	7	45	0.62	6	6/1	1190	151	162	60	75
Morgan	4	1	45	0.70	4	6/1	1860	220	226	80	100
Hackney	4	7	45	0.74	4	6/1	1860	226	241	80	100
Palomino	2	7	45	0.90	2	6/1	2850	342	362	105	135
Costena	1/0	19	60	1.14	1/0	6/1	4380	550	575	140	180
Grullo	2/0	19	60	1.25	2/0	6/1	5310	678	707	160	205
Suffolk	3/0	19	60	1.38	3/0	6/1	6620	838	872	185	135
Appaloosa	4/0	19	60	1.52	4/0	6/1	8350	1040	1080	210	275
Bronco	336.4	19	80	1.92	336.4	18/1	8530	1569	1614	280	370
Gelding	336.4	19	80	1.85	4/0	6/1	8350	1495	1548	280	370
Hurricane	500	37	80	2.21	336.4	26/7	14100	2185	2195	360	480

All data are approximate and subject to manufacturing tolerances. Where required, the compatibility with accessories should be verified using actual dimensions of our product. Other sizes and designs are available upon request.

Ampacity: @Ambient temperature of 40ºC, emissivity 0.9; 2ft/sec. wind in sun



THHN / MTW / THWN-2 / T90 - 600 V
90° C COPPER WIRE AND CABLE

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

99.9% pure electrolytic copper conductor, soft-drawn, solid or concentrically stranded in Class B or C, with thermoplastic PVC insulation and a nylon jacket.

APPLICATIONS

For general use in commercial and industrial installations:
- Public buildings
- Hotels
- Warehouses
- Chemical plants
- Petrochemical plants

FEATURES

- Resistant to:
  - Heat
  - Humidity
  - Solvents
  - Oils Resistant (PR I & PR II)
  - Gasoline Resistant (GR I & GR II)
  - Grease
  - Chemical Agents
- Resistant to abrasion and mechanical effort
- Flame retardant PVC
- Smaller outside diameter (-20% vs THHW)
- Low friction coefficient
- Available in standard colors for circuit identification

CT for sizes 1/0 AWG and larger and SR for sizes 8 AWG and larger.

Maximum operating voltage:
600 V

Preferred max. operating temp:
- Normal: 90°C
- Humid and wet locations: 90°C

Packaging:
- Plastic reels in following standard packaging:
  - 14 AWG. and 12 AWG. Carton with 4 reels of 500 ft. each
  - 10 AWG. Carton with 2 reels of 500 ft. each
  - 8 AWG. Carton with 1 reel of 500 ft
  - 14 AWG. Carton with 2 reels of 1000 ft each
  - 12 AWG. Carton with 1 reel of 1000 ft
- Individual plastic reels :
  - 12 AWG. and 14 AWG. 2500 ft
  - 10 AWG. and 8 AWG. 1000 ft
- Plywood reels:
  - 10 AWG. 2500 ft
  - 8 AWG. 2500 ft

Manufacturing range:
- Wires: 14 AWG to 10 AWG
- Cables: 14 AWG to 1000 kcmil

Standards:
- UL 83
- UL 1063
- UL c - CSA C22.2 No.75 (T90 & TWN75)

DIMENSIONS AND FEATURES								
Size	Cross-section area	Strands	Conductor Diameter	Insulation Thickness	Jacket Thickness	Overall diameter	Theoretical weight	DC electrical resistance at 20ºC
AWG	mm²		in	mil	mil	in	lb/kft	ohm/kft
14	2.08	1	0.06	15	4	0.10	16	2.5238
12	3.31	1	0.08	15	4	0.12	24	1.5880
10	5.26	1	0.10	20	4	0.15	38	0.9988
14	2.08	7	0.07	15	4	0.11	16	2.5604
12	3.31	19	0.09	15	4	0.13	25	1.6216
10	5.26	19	0.11	20	4	0.16	40	1.0180
8	8.37	7	0.14	30	5	0.21	66	0.6401
6	13.3	19	0.19	30	5	0.25	100	0.4023
4	21.2	19	0.23	40	6	0.32	161	0.2536
2	33.6	19	0.30	40	6	0.38	246	0.1655
1	42.4	19	0.33	50	7	0.44	321	0.1265
1/0	53.5	19	0.37	50	7	0.48	389	0.1003
2/0	67.4	19	0.42	50	7	0.52	483	0.0796
3/0	85	19	0.47	50	7	0.57	601	0.0631
4/0	107	19	0.53	50	7	0.63	749	0.0500
250	127	37	0.58	60	8	0.69	894	0.0424
300	152	37	0.63	60	8	0.75	1068	0.0354
350	177	37	0.68	60	8	0.80	1236	0.0302
400	203	37	0.73	60	8	0.84	1391	0.0265
500	253	37	0.81	60	8	0.93	1740	0.0212
600	304	61	0.89	70	9	0.98	2097	0.0176
750	380	61	0.93	70	9	1.07	2580	0.0141
1000	507	61	1.15	70	9	1.26	3427	0.0106

Note: Dimensions and weights are subject to manufacturing tolerances.



VULCAKOB® 600 V / 1000 V 90°C SOFT COPPER CONDUCTOR XHHW-2-SR-CT TYPE

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

Soft-drawn copper conductor insulated with cross-linked polyethylene (XLPE). The insulation is moisture- and heat-resistant.

APPLICATIONS

- Service Entrance
- Lighting and low voltage power systems
- Power Circuits
- Control Circuits
- Solar and Wind Farms
- Industrial Installations
- Public Buildings.
- Recreational Buildings

FEATURES

- Cross Linked Polyethylene XLPE insulation
- Sun Light Resistant (All colors)
- PRI and/or PRII – Oil resistant
- GRI and/or GRII – Gasoline resistant
- Wet or Dry locations not exceeding 90°C
- Suitable for direct burial installation
- Horizontal flame resistant
- Available in standard colors for circuit identification

Maximum operating voltage:
600/1000 volts

Preferred max. operating temp:
- Dry 90°C
- Wet 90°C
- Emergency 130 °C
- Short Circuit 250 °C

Standards:
- ASTM B3
- ASTM B8
- UL 44

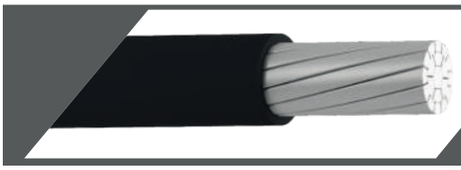
DIMENSIONS AND CHARACTERISTICS OF CABLES								
Size	Cross-section area	Compact Conductor Diameter	Insulation Thickness	Overall diameter	Theoretical weight	Ampacity (amp)		
AWG	mm²	in	mil	in	lb/kft	60°C	75° C	90°C
8	8.37	0.13	45	0.22	69	40	50	55
6	13.3	0.17	45	0.26	102	55	65	75
4	21.2	0.21	45	0.30	155	70	85	95
2	33.6	0.27	45	0.36	236	95	115	130
1/0	53.5	0.34	55	0.45	372	125	150	170
2/0	67.4	0.38	55	0.49	462	145	175	195
3/0	85	0.43	55	0.54	575	165	200	225
4/0	107	0.48	55	0.59	716	195	230	260
250	127	0.52	65	0.65	853	215	255	290
300	152	0.57	65	0.70	1015	240	285	320
350	177	0.62	65	0.75	1176	260	310	350
400	203	0.66	65	0.79	1336	280	335	380
500	253	0.74	65	0.87	1656	320	380	430
600	304	0.81	80	0.97	2007	350	420	475
750	380	0.91	80	1.07	2484	400	475	535

Note: Dimensions and weights are subject to manufacturing tolerances

VULCAKOB® 600 V / 1000 V 90ºC SOFT COPPER CONDUCTOR XHHW-2-SR-CT TYPE

KOBREX CONDUCTORES ELÉCTRICOS®

AMPACITY COMPARATIVE TABLE											
Size on Copper Conductor	VULCAKOB Aluminum - Size	Copper Conductor Ampacity			VULCAKOB Aluminum -Ampacity			Overall diameter	VULCAKOB Aluminum - Overall Diameter	Theoretical Weight	
THW/THHW-LS	XHHW-2	THW/THHW-LS			XHHW-2			THW/ THHW-LS	XHHW-2	THW/ THHW-LS	XHHW-2
		60°	75°	90°	60°	75°	90°	in	in	lb/kft	lb/kft
6	4	55	65	75	55	65	75	0.30	0.31	1115	652
4	2	70	85	95	75	90	100	0.34	0.36	1673	853
2	1/0	95	115	130	100	120	135	0.41	0.42	2520	1458
1	2/0	110	130	145	115	135	150	0.48	0.46	3293	1761
1/0	3/0	125	150	170	130	155	175	0.52	0.50	4025	2157
2/0	4/0	145	175	195	150	180	205	0.56	0.54	4946	2634
3/0	250	165	200	225	170	205	230	0.61	0.60	6142	3172
4/0	300	195	230	260	195	230	260	0.67	0.67	7607	3723
250	350	215	255	290	210	250	280	0.75	0.71	9058	4260
-	400	-	-	-	255	270	305	0.00	0.76	0	4784
300	-	240	285	320	-	-	-	0.80	0.80	10731	0
350	500	260	310	350	260	310	350	0.83	0.88	12398	5853
400	600	280	335	380	285	340	385	0.89	0.99	14051	7210
500	700	320	380	430	320	385	435	0.98	1.08	17350	8776



8000 SERIES TYPE XHHW-2 LS
CT-SR 600 V / 1000 V 90°C

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

Aluminum alloy 8000 series conductor. Cross-Linked Polyethylene (XLP) insulation. Weather and sunlight resistant. Approved for use in cable trays.

APPLICATIONS

- Low voltage distribution systems
- Energy circuits
- Control circuits
- Industrial installations

FEATURES

- Cross-linked polyethylene insulation (XLP)
- Suitable for installation in wet or dry locations
- High thermal stability
- Conductors marked with CT are suitable for cable tray installations in sizes 1/0 AWG and larger
- Conductors marked SR are sunlight resistant and apply to all sizes and colors
- Available in standard colors for circuit identification

Maximum operating voltage:
600 V / 1000 V

Preferred max. operating temp:
- Wet or dry locations: 90°C
- Humid and wet locations: 75°C
- In emergency: 130°C
- Short circuit: 250°C

Packaging:
- Wooden reels

Manufacturing range:
- 6 AWG to 750 kcmil

Standards:
- UL 44
- ASTM B800
- ASTM B801

DIMENSIONS AND FEATURES OF CABLES								
Size	Cross-sectional area	Compact Conductor Diameter	Insulation Thickness	Overall diameter	Theoretical weight	Ampacity (amp)		
AWG	mm²	in	mil	in	lb/kft	60° C	75° C	90° C
6	13.3	0.17	45	0.26	46	40	50	55
4	21.2	0.21	45	0.30	65	55	65	75
2	33.6	0.27	45	0.36	85	75	90	100
1/0	53.5	0.34	55	0.45	146	100	120	135
2/0	67.4	0.38	55	0.49	176	115	135	150
3/0	85	0..43	55	0.54	216	130	155	175
4/0	107	0.48	55	0.59	263	150	180	205
250	127	0.52	55	0.65	317	170	205	230
300	152	0.57	65	0.70	372	195	230	260
350	177	0.62	65	0.75	426	210	250	280
400	203	0.66	65	0.79	478	225	270	305
500	253	0.74	65	0.87	585	260	310	350
600	304	0.81	65	0.97	721	285	340	385
750	380	0.91	80	1.07	878	320	385	435
1000	507	1.06	80	1.22	1144	350	415	465

Note: The data shown in the table are for 8000 series conductors and are subject to manufacturing tolerances.
For other gauges, please contact the Engineering Department for information.

AMPACITY COMPARATIVE TABLE											
Size on Copper Conductor	VULCAKOB Aluminum - Size	Copper Conductor Ampacity			VULCAKOB Aluminum - Ampacity			Overall diameter	VULCAKOB Aluminum - Overall Diameter	Theoretical Weight	
THW/ THHW-LS	XHHW-2	THW/THHW-LS			XHHW-2			THW/ THHW-LS	XHHW-2	THW/ THHW-LS	XHHW-2
		60°	75°	90°	60°	75°	90°	in	in	lb/kft	lb/kft
6	4	55	65	75	55	65	75	0.30	0.31	1115	652
4	2	70	85	95	75	90	100	0.34	0.36	1673	853
2	1/0	95	115	130	100	120	135	0.41	0.42	2520	1458
1	2/0	110	130	145	115	135	150	0.48	0.46	3293	1761
1/0	3/0	125	150	170	130	155	175	0.52	0.50	4025	2157
2/0	4/0	145	175	195	150	180	205	0.56	0.54	4946	2634
3/0	250	165	200	225	170	205	230	0.61	0.60	6142	3172
4/0	300	195	230	260	195	230	260	0.67	0.67	7607	3723
250	350	215	255	290	210	250	280	0.75	0.71	9058	4260
-	400				255	270	305	0.00	0.76	0	4784
300	-	240	285	320				0.80	0.80	10731	0
350	500	260	310	350	260	310	350	0.83	0.88	12398	5853
400	600	280	335	380	285	340	385	0.89	0.99	14051	7210
500	700	320	380	430	320	385	435	0.98	1.08	17350	8776



TYPE RHH/RHW-2 CABLES XLP INSULATED CT-SR 600 V 90°C

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

Compact soft-drawn copper conductor. Cross-Linked Polyethylene (XLP) Insulation. Used for general purpose applications where circuits are not exceeding 600 V. Weather and sunlight resistant. Approved for use in cable trays.

APPLICATIONS

- Lighting and low voltage distribution systems
- Low voltage distribution systems exposed to the elements
- Energy circuits
- Control circuits
- Industrial installations
- Industrial Parks

FEATURES

- Cross-linked polyethylene insulation (XLP)
- Suitable for installation in moisture and wet locations
- Conductors marked SR are sunlight resistant and apply to all sizes and colors
- PR-II
- GR-II
- Meet cold bend test and cold impact at -40° C
- VW-1 (Optional)
- Conductors marked with CT are suitable for cable tray installations in sizes 1/0 AWG and larger
- Suitable for direct burial installation
- Available in standard colors for circuit identification

Maximum operating voltage:
600 V

Preferred max. operating temp:
- Dry and wet locations: 90°C
- In emergency: 130°C
- Short circuit: 250°C

Packaging:
- Wooden reels

Manufacturing range:
- 8 AWG to 750 kcmil

Standards:
- UL 44
- ASTM B3
- ASTM B496

DIMENSIONS AND TECHNICAL DATA						
Size	Cross-sectional area	Compact Conductor Diameter	Insulation Thickness	Overall diameter	Theoretical weight	Ampacity (amp)
AWG	mm²	in	mil	in	lb/kft	90°C
8	8.37	0.13	60	0.25	73	55
6	13.3	0.17	60	0.29	104	75
4	21.2	0.21	60	0.33	157	95
2	33.6	0.27	60	0.39	239	130
1/0	53.5	0.34	80	0.50	382	170
2/0	67.4	0.38	80	0.54	472	195
3/0	85	0.43	80	0.59	587	225
4/0	107	0.48	80	0.64	728	260
250	127	0.52	95	0.71	871	290
300	152	0.57	95	0.76	1033	320
350	177	0.62	95	0.81	1195	350
400	203	0.66	95	0.85	1356	380
500	253	0.74	95	0.93	1679	430
600	304	0.81	110	1.03	2026	475
750	380	0.91	110	1.13	2505	535

Note: Dimensions and weights are subject to manufacturing tolerances



AA8000 PHOTOVOLTAIC CABLES XLP INSULATED SR-CT FOR 600 V / 1000 V / 2000 V 90°C

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

Class B concentric-stranded or compact AA-8000 series aluminum conductor. Single-conductor, integrally jacketed photovoltaic wire rated 90°C in wet or dry locations and 600 V, 1000 V, or 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems.

APPLICATIONS

- Wind and solar farms
- Low voltage distribution systems exposed to weather
- Energy circuits
- Control circuits
- Industrial installations

FEATURES

- Cross-Linked Polyethylene (XLP) insulation
- Weather and sunlight resistant
- Suitable for installation in humid and wet locations
- VW-1 optional
- Suitable for direct burial installation
- High thermal stability
- Sunlight resistant (all color and all sizes)
- Meet cold bend test and cold impact at -40° C
- GR-II and PR-II
- Resistant to flame propagation
- CT-rated in sizes 1/0 AWG and larger when marked RHH/RHW-2
- FT4

Maximum operating voltage according to selection:
- 600 V
- 1000 V
- 2000 V

Preferred max. operating temp:
- Dry and wet locations: 90°C
- In emergency: 130°C
- Short circuit: 250°C

Packaging:
- Wooden reels.

Manufacturing range:
- Aluminum: 6 AWG to 750 kcmil
- Copper: 8 AWG to 750 kcmil

Standards:
- UL 4703
- ASTM B800
- ASTM B801

AA8000 PHOTOVOLTAIC CABLES XLP INSULATED
SR-CT FOR 600 V / 1000 V / 2000 V 90°C

KOBREX CONDUCTORES ELÉCTRICOS®

DIMENSIONS AND TECHNICAL DATA FOR 600V				
Size	Cross-sectional area	Compact Conductor Diameter	Insulation Thickness	Overall diameter
AWG/kcmil	mm²	in	mil	in
6	13.3	0.17	75	0.32
4	21.2	0.21	75	0.36
2	33.6	0.27	75	0.42
1/0	53.5	0.34	95	0.53
2/0	67.4	0.38	95	0.57
3/0	85	0.43	95	0.61
4/0	107	0.48	95	0.67
250	127	0.52	110	0.74
300	152	0.57	110	0.79
350	177	0.62	110	0.84
400	203	0.66	110	0.88
500	253	0.74	110	0.96
600	304	0.81	125	1.07
750	380	0.91	125	1.16

DIMENSIONS AND TECHNICAL DATA FOR 1000V AND 2000V				
Size	Cross-sectional area	Compact Conductor Diameter	Insulation Thickness	Overall diameter
AWG/kcmil	mm²	in	mil	in
6	13.3	0.17	85	0.34
4	21.2	0.21	85	0.38
2	33.6	0.27	85	0.44
1/0	53.5	0.34	105	0.55
2/0	67.4	0.38	105	0.59
3/0	85	0.43	105	0.63
4/0	107	0.48	105	0.69
250	127	0.52	120	0.76
300	152	0.57	120	0.81
350	177	0.62	120	0.86
400	203	0.66	120	0.90
500	253	0.74	120	0.98
600	304	0.81	135	1.09
750	380	0.91	135	1.18

Note: Dimensions are subject to manufacturing tolerances



PHOTOVOLTAIC CABLES XLP INSULATED SR-CT FOR 600 V / 1000 V / 2000 V 90°C

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

Class B concentric-stranded or compact conductor of annealed copper or hard-drawn 1350 aluminum. Single-conductor, integrally jacketed photovoltaic wire rated 90°C in wet or dry locations and 600 V, 1000 V, or 2000 V for interconnection wiring of grounded and ungrounded photovoltaic power systems.

APPLICATIONS

- Wind and solar farms
- Low voltage distribution systems exposed to the weather

FEATURES

- Cross-Linked Polyethylene (XLP) insulation
- Weather and sunlight resistant
- Suitable for installation in humid and wet locations
- Suitable for direct burial installation
- High thermal stability
- Sunlight resistant (all color and all sizes)
- VW-1 (Optional)
- Meet cold bend test and cold impact at -40° C
- GR-II and PR-II
- Resistant to flame propagation
- CT when marked as RHHW-2 suitable for cable tray installations in sizes 1/0 AWG and large
- FT4

Maximum operating voltage according to selection:
- 600 V
- 1000 V
- 2000 V

Preferred max. operating temp:
- Dry and wet locations: 90°C
- In emergency: 130°C
- Short circuit: 250°C

Packaging:
- Wooden reels

Manufacturing range:
- Aluminum: 6 AWG to 750 kcmil
- Copper: 8 AWG to 750 kcmil

Standards:
- UL 4703

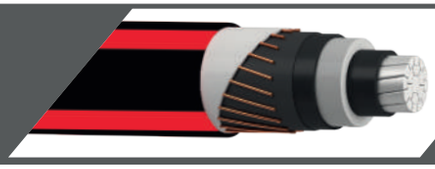
DIMENSIONS AND TECHNICAL DATA FOR 600V CONDUCTORS

Size	Cross-sectional area	Compact Conductor Diameter	Insulation Thickness	Overall diameter
AWG/kcmil	mm²	in	mil	in
8	8.37	0.13	75	0.28
6	13.3	0.17	75	0.32
4	21.2	0.21	75	0.36
2	33.6	0.27	75	0.42
1/0	53.5	0.34	95	0.53
2/0	67.4	0.38	95	0.57
3/0	85	0.43	95	0.61
4/0	107	0.48	95	0.67
250	127	0.52	110	0.74
300	152	0.57	110	0.79
350	177	0.62	110	0.84
400	203	0.66	110	0.88
500	253	0.74	110	0.96
600	304	0.81	125	1.07
750	380	0.91	125	1.16

PHOTOVOLTAIC CABLES XLP INSULATED SR-CT
FOR 600 V / 1000 V / 2000 V 90°C

DIMENSIONS AND TECHNICAL DATA FOR 1000V AND 2000V				
Size	Cross-sectional area	Compact Conductor Diameter	Insulation Thickness	Overall diameter
AWG/kcmil	mm²	in	mil	in
8	8.37	0.13	85	0.30
6	13.3	0.17	85	0.34
4	21.2	0.21	85	0.38
2	33.6	0.27	85	0.44
1/0	53.5	0.34	105	0.55
2/0	67.4	0.38	105	0.59
3/0	85	0.43	105	0.63
4/0	107	0.48	105	0.69
250	127	0.52	120	0.76
300	152	0.57	120	0.81
350	177	0.62	120	0.86
400	203	0.66	120	0.90
500	253	0.74	120	0.98
600	304	0.81	135	1.09
750	380	0.91	135	1.18

Note: depending on the selection of the metal and conductor gauge, the current carrying capacity will be the same.
Consult Kobrex Engineering Department for more information.



MV-90 XLP INSULATED, PVC JACKETED FOR 5 kV / 15 kV / 25 kV / 35 kV FOR WET ENVIRONMENTS

KOBREX CONDUCTORES ELÉCTRICOS®

DESCRIPTION

Compressed or compact soft-drawn copper or hard-drawn aluminum conductor with longitudinal water-blocking elements, a semiconductive conductor screen, cross-linked polyethylene (XLPE) insulation, a semiconductive insulation screen, a metallic screen consisting of soft-drawn copper wires with water-blocking elements, and a red polyvinyl chloride (PVC) jacket.

APPLICATIONS

These cables are used in primary power and distribution network systems in residential, commercial, and industrial areas. They can be installed in conduit, underground ducts or directly buried.

FEATURES

- Maximum safety
- Triple extrusion and dry curing manufacturing process where the electrical FEATURES are enhanced
- Resistance to longitudinal water penetration in the conductor and metallic-screen areas
- Heat and moisture resistant cross-linked polyethylene (XLP) insulation
- Excellent dielectric strength and low dielectric losses
- The PVC cover is certified as fire resistant, flame retardant, with minimal generation of toxic and corrosive gases
- Resistant to weathering, sunlight, oils, grease and chemicals

Maximum operating voltage:
5 kV / 15 kV / 25 kV / 35 kV

Insulation level:
100 % and 133%

Preferred max. operating temp:
- Normal: 90°C
- In emergency: 130°C
- Short circuit: 250°C

Packaging:
- Wooden reels with heat-shrink caps for protection

Manufacturing range:
- 2 AWG to 1000 kcmil in 5, 15, 25 and 35 kV

Product manufacturing options:
- Arborescence-retardant cross-linked polyethylene insulation (TR-XLP)
- Metallic screen with copper tape
- Black polyethylene jacket with 3 red stripes

Standards:
- UL 1072

MV-90 XLP INSULATED, PVC JACKETED FOR 5 kV / 15 kV / 25 kV / 35 kV FOR WET ENVIRONMENTS

KOBREX CONDUCTORES ELÉCTRICOS®

MV-90 XLP INSULATED, PVC JACKETED FOR 5, 15, 25 AND 35 kV FOR WET ENVIRONMENTS							
DIMENSIONS AND TECHNICAL DATA							
5 kV XLP TYPE DS 100% and 133% Insulation level | Nominal insulation thickness: 90 mil							
Size	Cross-sectional area	Strands	Nominal conductor diameter	Nominal Diameter over insulation	Approximate overall diameter	Approximate net weight	
						Copper	Aluminum
AWG/kcmil	mm²		in	in	in	lb/kft	lb/kft
2	33.62	7	0.28	0.51	0.79	415	268
1/0	53.48	19	0.34	0.58	0.86	564	330
2/0	67.43	19	0.38	0.62	0.94	706	409
3/0	85.01	19	0.43	0.67	1.00	833	461
4/0	107.2	19	0.48	0.72	1.05	995	523
250	126.7	37	0.52	0.77	1.11	1149	595
300	152	37	0.57	0.82	1.16	1331	664
350	177.3	37	0.62	0.87	1.20	1505	732
400	202.7	37	0.66	0.91	1.25	1680	793
500	253.4	37	0.74	0.99	1.34	2036	941
600	304	61	0.81	1.07	1.43	2412	1082
750	380	61	0.91	1.17	1.53	2930	1270
1000	506.7	61	1.06	1.32	1.69	3783	1572

ENERKOB® MV-90 XLP INSULATED FOR 15 kV - WET ENVIRONMENTS														
DIMENSIONS AND TECHNICAL DATA														
15 kV XLP TYPE DS				100% Insulation level				133% Insulation level						
				Nominal thickness of insulation: 175 mil				Nominal thickness of insulation: 220 mil						
Size	Cross-section area	Strands	Nominal conductor diameter	Nominal Diameter over insulation	Approximate overall diameter	Approximate net weight		Nominal Diameter over insulation	Approximate overall diameter	Approximate overall diameter	Approximate net weight			
						Copper	Aluminum				Copper		Aluminum	
AWG/kcmil	mm²		in	in	in	lb/kft	lb/kft	in	mm	in	kg/KM	lb/kft	kg/KM	lb/kft
2	33.6	7	0.28	0.68	1.01	555	409	0.77	28.5	1.12	957	643	739	497
1/0	53.5	19	0.34	0.75	1.08	712	481	0.84	30.4	1.20	1210	813	857	576
2/0	67.4	19	0.38	0.79	1.12	820	528	0.88	31.4	1.24	1370	921	933	627
3/0	85.0	19	0.43	0.83	1.17	954	586	0.93	32.7	1.29	1580	1062	1030	692
4/0	107.2	19	0.48	0.89	1.22	1122	654	0.98	34.1	1.34	1830	1230	1140	766
250	126.7	37	0.52	0.94	1.28	1283	732	1.03	36	1.42	2110	1418	1290	867
300	152.0	37	0.57	0.99	1.35	1485	820	1.08	37.4	1.47	2400	1613	1410	947
350	177.3	37	0.62	1.04	1.40	1673	894	1.13	38.6	1.52	2680	1801	1530	1028
400	202.7	37	0.66	1.08	1.44	1855	968	1.17	39.7	1.56	2960	1989	1640	1102
500	253.4	37	0.74	1.16	1.52	2211	1102	1.25	41.8	1.65	3500	2352	1850	1243
600	304.0	61	0.81	1.24	1.60	2587	1257	1.33	44	1.73	4080	2742	2100	1411
750	380.0	61	0.91	1.33	1.70	3111	1451	1.43	48.1	1.89	5050	3393	2580	1734
1000	506.7	61	1.06	1.49	1.92	4099	1888	1.58	52.6	2.07	6430	4321	3150	2117

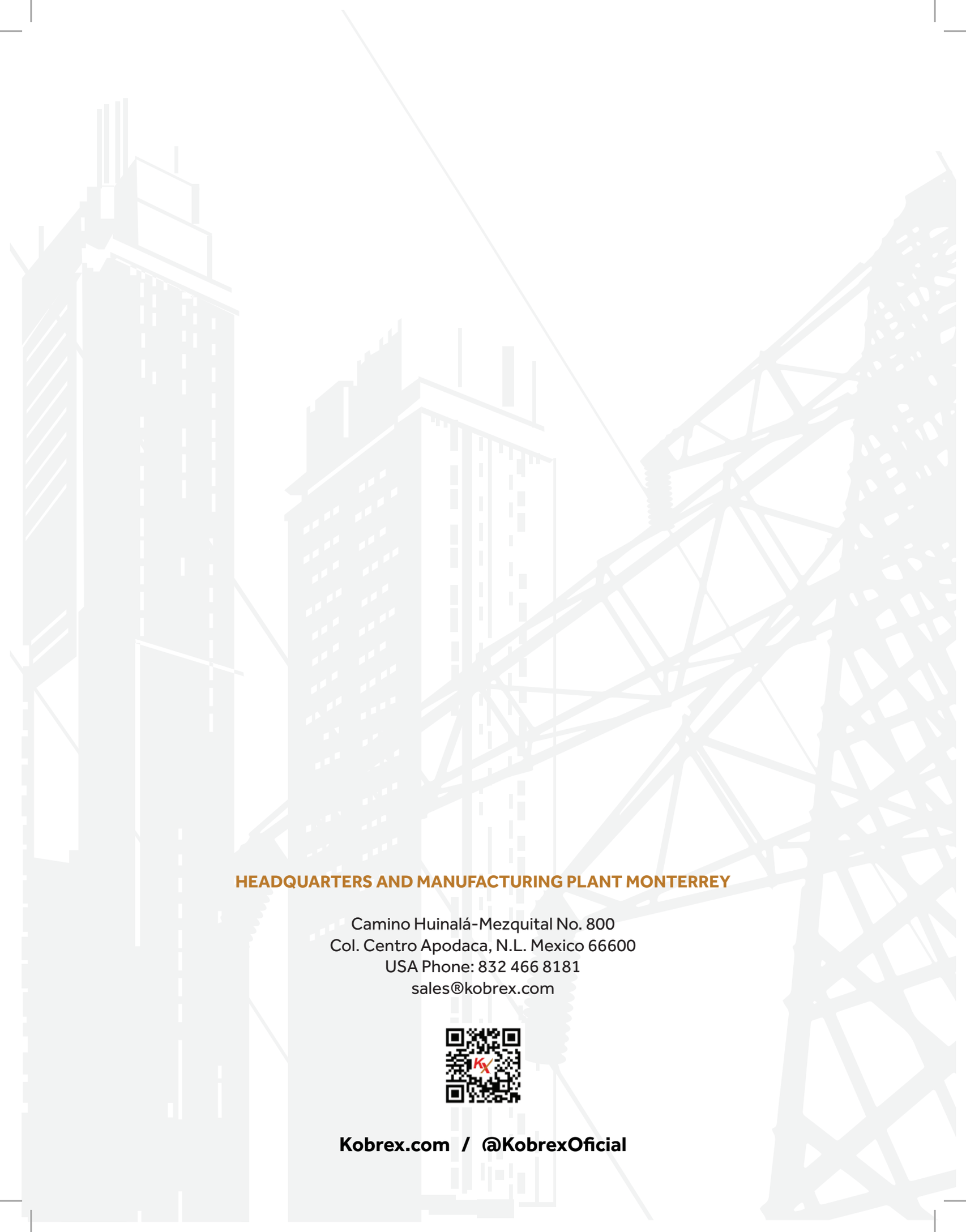
MV-90 XLP INSULATED, PVC JACKETED FOR 5 kV / 15 kV / 25 kV / 35 kV FOR WET ENVIRONMENTS

KOBREX CONDUCTORES ELÉCTRICOS®

DIMENSIONS AND TECHNICAL DATA														
25 kV XLP TYPE DS				100% Insulation level				133% Insulation level						
				Nominal thickness of insulation: 260 mil				Nominal thickness of insulation: 320 mil						
Size	Cross-section area	Strands	Nominal conductor diameter	Nominal Diameter over insulation	Approximate overall diameter	Approximate net weight		Nominal Diameter over insulation	Approximate overall diameter	Approximate overall diameter	Approximate net weight			
						Copper	Aluminum				Copper		Aluminum	
AWG/ kcmil	mm²		in	in	in	lb/kft	lb/kft	in	mm	in	kg/KM	lb/kft	kg/KM	lb/kft
1/0	53.5	19	0.34	0.92	1.25	847	615	1.04	35.3	1.39	1440	968	1090	732
2/0	67.4	19	0.38	0.96	1.30	961	665	1.07	36.4	1.43	1610	1082	1170	786
3/0	85.0	19	0.43	1.00	1.36	1115	746	1.12	37.7	1.48	1830	1230	1270	853
4/0	107.2	19	0.48	1.07	1.43	1297	827	1.19	39.2	1.54	2100	1411	1400	941
250	126.7	37	0.52	1.12	1.48	1465	914	1.24	40.7	1.60	2360	1586	1540	1035
300	152.0	37	0.57	1.17	1.53	1660	995	1.29	42	1.65	2650	1781	1660	1115
350	177.3	37	0.62	1.22	1.58	1848	1075	1.34	43.3	1.70	2940	1976	1780	1196
400	202.7	37	0.66	1.26	1.62	2036	1149	1.38	45.9	1.81	3380	2271	2060	1384
500	253.4	37	0.74	1.34	1.70	2399	1290	1.46	47.9	1.89	3950	2654	2300	1546
600	304.0	61	0.81	1.42	1.85	2896	1566	1.54	50.1	1.97	4540	3051	2560	1720
750	380.0	61	0.91	1.52	1.95	3440	1781	1.63	53	2.09	5390	3622	2920	1962
1000	506.7	61	1.06	1.67	2.12	4368	2157	1.79	57	2.24	6750	4536	3460	2325

DIMENSIONS AND TECHNICAL DATA														
35 kV XLP TYPE DS				100% Insulation level				133% Insulation level						
				Nominal thickness of insulation: 260 mil				Nominal thickness of insulation: 420 mil						
Size	Cross-section area	Strands	Nominal conductor diameter	Nominal Diameter over insulation	Approximate overall diameter	Approximate net weight		Nominal Diameter over insulation	Approximate overall diameter	Approximate overall diameter	Approximate net weight			
						Copper	Aluminum				Copper		Aluminum	
AWG/ kcmil	mm²		in	in	in	lb/kft	lb/kft	in	mm	in	kg/KM	lb/kft	kg/KM	lb/kft
1/0	53.5	19	0.34	1.09	1.45	1021	786	1.24	40.7	1.60	1740	1169	1390	934
2/0	67.4	19	0.38	1.13	1.49	1136	847	1.28	41.7	1.64	1920	1290	1480	995
3/0	85.0	19	0.43	1.18	1.54	1283	914	1.33	43	1.69	2150	1445	1590	1068
4/0	107.2	19	0.48	1.24	1.61	1478	1008	1.39	46.3	1.82	2600	1747	1910	1283
250	126.7	37	0.52	1.30	1.66	1646	1095	1.44	47.6	1.87	2870	1929	2050	1378
300	152.0	37	0.57	1.35	1.72	1848	1183	1.50	49	1.93	3180	2137	2190	1472
350	177.3	37	0.62	1.39	1.82	2150	1371	1.54	50.2	1.98	3480	2338	2370	1593
400	202.7	37	0.66	1.43	1.86	2338	1451	1.58	51.6	2.03	3810	2560	2490	1673
500	253.4	37	0.74	1.51	1.94	2721	1613	1.66	53.7	2.11	4390	2950	2740	1841
600	304.0	61	0.81	1.59	2.05	3145	1814	1.74	55.9	2.20	5000	3360	3020	2029
750	380.0	61	0.91	1.69	2.14	3703	2043	1.84	58.3	2.30	5840	3924	3360	2258
1000	506.7	61	1.06	1.84	2.30	4616	2412	1.99	62.4	2.46	7220	4852	3930	2641

Note: Dimensions and weights are subject to manufacturing tolerances.



HEADQUARTERS AND MANUFACTURING PLANT MONTERREY

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