



CSA & UL

CATALOGUE

CANADIAN WIRES INC.

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MOBILE HOME FEEDER
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Company Profile

At Canada Cables, we take pride in delivering high-quality wire and cable solutions tailored to meet the diverse needs of our customers across Canada and beyond. Our product range includes a comprehensive selection of fireproof cables, mining cables, high-temperature and cold-resistant cables, marine cables, photovoltaic cables, and more—crafted for durability and performance in various industries.

Unparalleled Product Quality

Our cables are designed and engineered to meet the rigorous standards required by industries such as power generation, transportation, petrochemicals, construction, and renewable energy. From fireproof cables used in critical infrastructure to high-performance cables for renewable energy projects, we focus on delivering innovative solutions that power progress.

Broad Applications for Various Industries

Our products are trusted by industry leaders and are widely used in essential sectors:

Rail Transit & Subways: Supplying fireproof cables for major transit systems.

Energy & Mining: High-performance cables for challenging environments such as mines and energy projects.

Marine Engineering: Durable marine cables built to withstand harsh conditions.

Aerospace: Advanced cables meeting stringent quality standards.

Infrastructure Projects: Supporting national and local landmark developments with high-quality cables.

Innovation at the Core

At Canada Cables, innovation drives us. Our commitment to research and development ensures our products remain at the forefront of technology. We collaborate with academic institutions, research centers, and industry experts to continually enhance our cable offerings. With over 300 authorized patents, including multiple invention patents, we are proud to bring leading-edge technology to the market.

Global Certifications

Our products are certified by globally recognized standards, including ISO9001, ISO14001, ISO18001, UL, CSA, TUV, CE, and IATF16949. These certifications affirm our commitment to quality, environmental stewardship, and safety.

Bare conductor

ACSR

Aluminum Conductor Steel Reinforced

AAAC

All Aluminium Alloy Conductor

ACAR

Aluminum Conductor Alloy Reinforced



Bare conductor

ACSR

Aluminum Conductor Steel Reinforced

What is ACSR Conductor?

ACSR conductor consists of a solid or stranded steel core surrounded by strands of aluminum. ACSR Conductor is available in a wide range of steel, containing carbon from 0.5% to 0.85 %. The higher strength ACSR Conductor are used for river crossings, overhead ground wires, installations involving extra long spans etc. Against any given resistance of conductor, ACSR may be manufactured for having a wide range of tensile strength as per requirement. The principal advantage of these conductors are high tensile strength so that they are used for longer spans with less supports. Due to the greater diameter of ACSR Conductor a much higher corona limit can be obtained causing big advantages on high as well as extra high voltage Overhead lines.

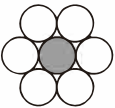
ACSR Conductor Construction

Aluminium Conductor Steel Reinforced (ACSR) is concentrically stranded conductor with one or more layers of hard drawn 1350-H19 aluminium wire on galvanized steel wire core. The core can be single wire or stranded depending on the size. Steel core wire is available in Class A , B or Class C galvanization for corrosion protection. Additional corrosion protection is available through the application of grease to the core or infusion of the completed conductor with grease.

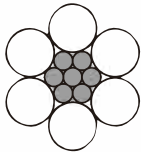
ACSR Conductor Features

- better conduct performance, excellent tensile
- strength and good mechanic property.
- Long life service time, safe and reliable, easy maintenance

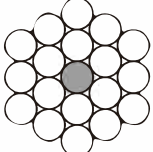
Cables by Standard



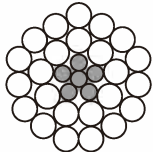
ACSR BS 215-2
5 PRODUCTS



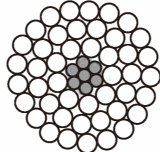
ACSR BS EN 50182
5 PRODUCTS



ACSR IEC 61089
5 PRODUCTS



ACSR ASTM B 231/B 231M
31 PRODUCTS



ACSR DIN 48201
7 PRODUCTS

Code Word	Size (AWG or kcmil)	Strand- ing (Al/Stl)	Diameter(ins.)				Weight Per 1000 ft. (lbs.)			Content (%)		Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity+ (Amps)
			Individual Wires		Steel Core	Complete Cable	Al	Stl	Total	Al	Stl		DC @ 20°C	AC @ 75°C	
			Al	Stl											
Turkey	6	6/1	.0661	.0661	.0661	.198	24	12	36	67.88	32.12	1190	.641	.806	105
Swan	4	6/1	.0834	.0834	.0834	.25	39	18	57	67.87	32.12	1860	.403	.515	140
Swanate	4	7/1	.0772	.103	.103	.257	39	28	67	58.1	41.9	2360	.399	.519	140
Sparrow	2	6/1	.1052	.1052	.1052	.316	62	29	91	67.9	32.1	2850	.254	.332	184
Sparate	2	7/1	.0974	.1298	.1298	.325	62	45	107	58.12	41.88	3460	.251	.338	184
Robin	1	6/1	.1181	.1181	.1181	.354	78	37	115	67.88	32.12	3550	.201	.268	212
Raven	1/0	6/1	.1327	.1327	.1327	.398	99	47	145	67.89	32.11	4380	.159	.217	242
Quail	2/0	6/1	.1489	.1489	.1489	.447	124	59	183	67.88	32.12	5310	.126	.176	276
Pigeon	3/0	6/1	.1672	.1672	.1672	.502	156	74	230	67.87	32.13	6620	.100	.144	315
Penguin	4/0	6/1	.1878	.1878	.1878	.563	197	93	291	67.88	32.12	8350	.0795	.119	357
Waxwing	266.8	18/1	.1217	.1217	.1217	.609	250	39	289	86.43	13.57	6880	.0643	.0787	449
Partridge	266.8	26/7	.1013	.0788	.2363	.642	251	115	367	68.51	31.49	11300	.0637	.0779	475
Ostrich	300	26/7	.1074	.0835	.2506	.68	283	130	412	68.51	31.49	12700	.0567	.0693	492
Merlin	336.4	18/1	.1367	.1367	.1367	.684	315	49	365	86.43	13.57	8680	.0510	.0625	519
Linnet	336.4	26/7	.1137	.0885	.2654	.72	317	146	462	68.51	31.49	14100	.0505	.0618	529
Oriole	336.4	30/7	.1059	.1059	.3177	.741	318	209	526	60.35	39.65	17300	.0502	.0613	535
Chickadee	397.5	18/1	.1486	.1486	.1486	.743	373	58	431	86.43	13.57	9940	.0432	.0529	576
Brant	397.5	24/7	.1287	.0858	.2574	.772	374	137	511	73.21	26.79	14600	.0430	.0526	584
Ibis	397.5	26/7	.1236	.0962	.2885	.783	374	172	546	68.51	31.49	16300	.0428	.0523	587
Lark	397.5	30/7	.1151	.1151	.3453	.806	375	247	622	60.35	39.65	20300	.0425	.0519	594
Pelican	477	18/1	.1628	.1628	.1628	.814	447	70	517	86.44	13.56	11800	.0360	.0442	646
Flicker	477	24/7	.141	.094	.2819	.846	449	164	614	73.21	26.79	17200	.0358	.0439	655
Hawk	477	26/7	.1354	.1053	.316	.858	449	207	656	68.51	31.49	19500	.0356	.0436	659

Code Word	Size (AWG or kcmil)	Strand- ing (Al/Stl)	Diameter(ins.)				Weight Per 1000 ft. (lbs.)			Content (%)		Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity+ (Amps)
			Individual Wires		Steel Core	Complete Cable	Al	Stl	Total	Al	Stl		DC @ 20°C	AC @ 75°C	
			Al	Stl											
Hen	477	30/7	.1261	.1261	.3783	.883	450	296	746	60.35	39.65	23800	.0354	.0433	666
Osprey	556.5	18/1	.1758	.1758	.1758	.879	522	82	603	86.43	13.57	13700	.0308	.0379	711
Parakeet	556.5	24/7	.1523	.1015	.3045	.914	524	192	716	73.21	26.79	19800	.0307	.0376	721
Dove	556.5	26/7	.1463	.1138	.3413	.927	524	241	765	68.51	31.49	22600	.0306	.0375	726
Eagle	556.5	30/7	.1362	.1362	.4086	.953	525	345	871	60.35	39.65	27800	.0303	.0372	734
Peacock	605	24/7	.1588	.1059	.3177	.953	570	209	779	73.2	26.8	21600	.0282	.0346	760
Squab	605	26/7	.1525	.1186	.3559	.966	570	262	832	68.51	31.49	24300	.0281	.0345	765
WoodDuck	605.0	30/7	.142	.142	.426	.994	571	375	946	60.35	39.65	28900	.0279	.0342	774
Teal	605.0	30/19	.142	.0852	.426	.994	571	367	939	60.86	39.14	30000	.0279	.0342	773
Kingbird	636	18/1	.188	.188	.188	.94	596	94	690	86.43	13.57	15700	.0270	.0332	773
Swift	636.0	36/1	.1329	.1329	.1329	.93	596	47	643	92.72	7.28	13690	.0271	.0334	769
Rook	636	24/7	.1628	.1085	.3256	.977	599	219	818	73.22	26.78	22600	.0268	.0330	784
Grosbeak	636	26/7	.1564	.1216	.3649	.991	599	275	874	68.51	31.49	25200	.0267	.0328	789
Scoter	636.0	30/7	.1456	.1456	.4368	1.019	600	395	995	60.35	39.65	30400	.0256	.0325	798
Egret	636	30/19	.1456	.0874	.4368	1.019	600	386	987	60.85	39.15	31500	.0266	.0326	798
Flamingo	666.6	24/7	.1667	.1111	.3333	1	628	230	858	73.21	26.79	23700	.0256	.0315	807
Gannet	666.6	26/7	.1601	.1245	.3736	1.014	628	289	916	68.51	31.49	26400	.0255	.0313	812
Stilt	715.5	24/7	.1727	.1151	.3453	1.036	674	247	920	73.21	26.79	25500	.0239	.0294	844
Starling	715.5	26/7	.1659	.129	.3871	1.051	674	310	984	68.51	31.49	28400	.0238	.0292	849
Redwing	715.5	30/19	.1544	.0927	.4633	1.081	676	435	1110	60.85	39.15	34600	.0236	.0290	859
Coot	795	36/1	.1486	.1486	.1486	1.04	745	58	804	92.72	7.28	16710	.0217	.0268	884
Drake	795	26/7	.1749	.136	.408	1.107	749	344	1093	68.51	31.49	31500	.0214	.0263	907
Tern	795	45/7	.1329	.0886	.2658	1.063	749	146	895	83.67	16.33	22100	.0216	.0269	887

Code Word	Size (AWG or kcmil)	Strand- ing (Al/Stl)	Diameter(ins.)				Weight Per 1000 ft. (lbs.)			Content (%)		Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity+ (Amps)
			Individual Wires		Steel Core	Complete Cable	Al	Stl	Total	Al	Stl		DC @ 20°C	AC @ 75°C	
			Al	Stl											
Condor	795	54/7	.1213	.1213	.364	1.092	749	274	1023	73.21	26.79	28200	.0215	.0272	889
Mallard	795	30/19	.1628	.0977	.4884	1.14	751	483	1234	60.86	39.14	38400	.0213	.0261	918
Ruddy	900	45/7	.1414	.0943	.2828	1.131	848	165	1013	83.67	16.33	24400	.0191	.0239	958
Canary	900	54/7	.1291	.1291	.3873	1.162	848	310	1158	73.22	26.78	31900	.0190	.0241	961
Rail	954	45/7	.1456	.0971	.2912	1.165	899	175	1074	83.67	16.33	25900	.0180	.0225	993
Cardinal	954	54/7	.1329	.1329	.3987	1.196	899	329	1227	73.21	26.79	33800	.0179	.0228	996
Ortolan	1033.5	45/7	.1515	.101	.3031	1.212	973	190	1163	83.67	16.33	27700	.0167	.0209	1043
Curlew	1033.5	54/7	.1383	.1383	.415	1.245	973	356	1330	73.21	26.79	36600	.0165	.0211	1047
Bluejay	1113	45/7	.1573	.1048	.3145	1.258	1048	205	1253	83.67	16.33	29800	.0155	.0194	1092
Finch	1113	54/19	.1436	.0861	.4307	1.292	1053	375	1429	73.72	26.28	39100	.0154	.0197	1093
Bunting	1192.5	45/7	.1628	.1085	.3256	1.302	1123	219	1343	83.67	16.33	32000	.0144	.0182	1139
Grackle	1192.5	54/19	.1486	.0892	.4458	1.337	1129	402	1531	73.72	26.28	41900	.0144	.0184	1140
Bittern	1272	45/7	.1681	.1121	.3362	1.345	1198	234	1432	83.67	16.33	34100	.0135	.0171	1184
Pheasant	1272	54/19	.1535	.0921	.4605	1.381	1204	429	1633	73.71	26.29	43600	.0135	.0173	1187
Dipper	1351.5	45/7	.1733	.1155	.3466	1.386	1273	248	1521	83.67	16.33	36200	.0127	.0162	1229
Martin	1351.5	54/19	.1582	.0949	.4746	1.424	1279	456	1735	73.72	26.28	46300	.0127	.0163	1232
Bobolink	1431	45/7	.1783	.1189	.3566	1.427	1348	263	1611	83.67	16.33	38300	.0120	.0153	1272
Lapwing	1590	45/7	.188	.1253	.3759	1.504	1498	292	1790	83.67	16.33	42200	.0108	.0139	1354
Falcon	1590	54/19	.1716	.103	.5148	1.544	1505	536	2041	73.72	26.28	54500	.0108	.0140	1359
Chukar	1780	84/19	.1456	.0874	.4368	1.602	1685	386	2072	81.35	18.65	51000	.0097	.0125	1453
Bluebird	2156	84/19	.1602	.0962	.4808	1.762	2040	468	2508	81.34	18.66	60300	.00801	.0105	1623
Kiwi	2167	72/7	.1735	.1157	.347	1.735	2051	249	2300	89.17	10.82	49800	.00801	.0106	1607

+Conductor temperature of 75°C, ambient temperature 25°C, emissivity 0.5, wind 2 ft./sec., in sun.

Single-Layer Aluminum Conductor, Steel Reinforced (ACSR) High Mechanical Strength															
Code Word	Size (kcmil)	Stranding (Al/St)	Diameter(ins.)				Weight (lb/1000 ft)			Content (% Weight)		RBS (lb)	Resistance (Ω/1000 ft)		Ampacity+ (Amps)
			Aluminum Wires	Steel Wires	Steel Core	Complete Conductor	Al.	Steel	Total	Al.	Steel		dc @20°C	ac @75°C	
Grouse	80.0	8/1	0.1000	0.1667	0.1667	0.367	75	74	149	50.4	49.6	5,190	0.2065	0.2888	205
Petrel	101.8	12/7	0.0921	0.0921	0.2763	0.461	96	158	254	37.8	62.2	10,400	0.1583	0.2493	234
Minorca	110.8	12/7	0.0961	0.0961	0.2883	0.481	104	172	276	37.8	62.2	11,300	0.1454	0.2331	245
Leghorn	134.6	12/7	0.1059	0.1059	0.3177	0.530	127	209	336	37.8	62.2	13,600	0.1197	0.2000	271
Guinea	159.0	12/7	0.1151	0.1151	0.3453	0.576	150	247	396	37.8	62.2	16,000	0.1014	0.1757	296
Dotterel	176.9	12/7	0.1214	0.1214	0.3642	0.607	167	274	441	37.8	62.2	17,300	0.0911	0.1618	313
Dorking	190.8	12/7	0.1261	0.1261	0.3783	0.631	180	296	476	37.8	62.2	18,700	0.0845	0.1530	325
Brahma	203.2	16/19	0.1127	0.0977	0.4885	0.714	191	483	675	28.4	71.6	28,400	0.0764	0.1499	340
Cochin	211.3	12/7	0.1327	0.1327	0.3981	0.664	199	328	527	37.8	62.2	20,700	0.0763	0.1410	343

+ Based on 25°C ambient temperature, 2 ft/s perpendicular wind, 0.5 emissivity/absorptivity, 60 Hz, noon on June 10th

Bare conductor

AAAC
All Aluminium Alloy Conductor



What Is AAAC Conductor?

AAAC are made out of high strength Aluminium-Magnesium-Silicon alloy. AAAC is used as a bare overhead conductor for power transmission and distribution lines, on aerial circuits that require a larger mechanical resistance than AAC, and a better corrosion resistance than ACSR. The sag characteristics and the strength-to-weight ratio of AAAC is better than both AAC / ACSR.

AAAC Conductor Construction

AAAC is made from aluminium-magnesium silicon alloy of high electrical conductivity containing enough magnesium silicide to give it better mechanical properties after treatment. These conductors are generally made out of aluminium alloy 6201.

AAAC Conductor Features

- Superior corrosion resistant performance
- Low electrical losses comparing with ACSR Conductors
- Higher performance of operating temperature
- Equal diameter of Aluminum-Magnesium-Silicone Alloy Wire strands, light weight
- Almost double strength of EC Aluminum wires and thereby having a longer span

Cables by Standard



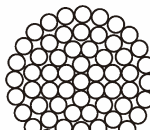
AAAC BS 3242
5 PRODUCTS



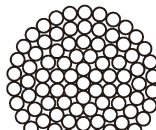
AAAC BS EN 50182
5 PRODUCTS



AAAC IEC 61089
5 PRODUCTS



AAAC ASTM B 399
10 PRODUCTS



AAAC DIN 48201
5 PRODUCTS

Code Word	Size (kcmil)	Strand-ing	Diameter(ins.)		Cross-Sectional Area (Sq. ins.)	Weight Per 1000 ft. (lbs.)	Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity+ (Amps)	ACSR With Equiv. Diam.		Approx. EC Cond. With Equivalent Resistance
			Individual Wires	Complete Cables				DC @ 20°C	AC @ 75°C		Size	Stranding (AL/STL)4	
Akron	30.58	7	0.0661	0.198	0.0240	28.5	1110	.659	.785	107	6	6/1	6
Alton	48.69	7	0.0834	0.250	0.0382	45.4	1760	.414	.493	143	4	6/1	4
Ames	77.47	7	0.1052	0.316	0.0608	72.2	2800	.260	.310	191	2	6/1	2
Azusa	123.3	7	0.1327	0.398	0.0968	115.0	4280	.163	.195	256	1/0	6/1	1/0
Anaheim	155.4	7	0.1490	0.447	0.1221	144.9	5390	.130	.154	296	2/0	6/1	2/0
Amherst	195.7	7	0.1672	0.502	0.1537	182.5	6790	.103	.123	342	3/0	6/1	3/0
Alliance	246.9	7	0.1878	0.563	0.1939	230.2	8560	.0816	.0973	395	4/0	6/1	4/0
Butte	312.8	19	0.1283	0.642	0.2456	291.7	10500	.0644	.0769	460	266.8	26/7	266.8
Canton	394.5	19	0.1441	0.721	0.3099	367.9	13300	.0511	.0610	532	336.4	26/7	336.4
Cairo	465.4	19	0.1565	0.783	0.3655	434.0	15600	.0433	.0518	590	397.5	26/7	397.5
Darien	559.5	19	0.1716	0.858	0.4394	521.7	18800	.0360	.0431	663	477.0	26/7	477.0
Elgin	652.4	19	0.1853	0.927	0.5124	608.4	21900	.0309	.0371	729	556.5	26/7	556.5
Flint	740.8	37	0.1415	0.991	0.5818	690.8	24400	.0272	.0327	790	636.0	26/7	636.0
Greeley	927.2	37	0.1583	1.108	0.7282	864.6	30500	.0217	.0263	908	795.0	26/7	795.0

+Ampacity based on 75°C conductor temperature, 25°C ambient temperature, 2 ft/sec. wind in sun, emissivity 0.5, 52.5% conductivity.

Bare conductor

ACAR

Aluminum Conductor Alloy Reinforced



What Is ACAR Conductor?

ACAR concentric-lay-stranded conductors in single and multi-layer conductor designs to optimize the strength and the current carrying capacity for transmission and distribution projects for which AAC conductors do not provide the required strength and AAAC or ACSR conductors are either not required or suitable.

ACAR Conductor Construction

ACAR is a concentric-laystranded conductor made from round aluminum 1350-H19 (extra hard) wires and round aluminum 6201-T81 wires. ACAR conductors are available in single and multi-layer constructions. These choices provide the necessary strength and the current carrying capacity for given applications. For equal weight, ACAR conductors offer higher strength and ampacity than ACSR conductors.

ACAR Conductor Features

- Conductor has no hysteresis losses
- No electrochemical reaction
- Lower power trans resistance

Cables by Standard

Size (kcmil)	Strand- ing (EC/6201)	Diameter(ins.)			Weight Per 1000 ft. (lbs.)	Rated Strength (lbs.)	Resistance OHMS/1000 ft.		Allowable Ampacity+ (Amps)
		Individual Wires		Comp. Cable			DC @ 20°C	AC @ 75°C	
		6201	1350						
355.0	12/7	0.1367	0.1367	0.683	332.1	8500	.0514	.0624	519
465.9	12/7	0.1566	0.1566	0.783	435.8	11000	.0392	.0477	616
503.6	12/7	0.1628	0.1628	0.814	471.1	11900	.0362	.0441	646
653.1	12/7	0.1854	0.1854	0.927	611.0	15400	.0279	.0342	760
739.8	30/7	0.1414	0.1414	0.990	692.7	15300	.0240	.0296	831
739.8	18/19	0.1414	0.1414	0.990	691.6	18800	.0252	.0308	814
853.7	30/7	0.1519	0.1519	1.063	799.3	17500	.0208	.0257	907
853.7	18/19	0.1519	0.1519	1.063	798.0	21500	.0218	.0268	890
927.2	30/7	0.1583	0.1583	1.108	868.2	19000	.0192	.0238	955
927.2	18/19	0.1583	0.1583	1.108	866.7	23400	.0201	.0247	936
1024.5	30/7	0.1664	0.1664	1.165	959.3	20900	.0173	.0216	1015
1024.5	18/19	0.1664	0.1664	1.165	957.7	25800	.0182	.0225	995
1081.0	30/7	0.1709	0.1709	1.196	1012.1	22100	.0164	.0205	1048
1081.0	18/19	0.1709	0.1709	1.196	1010.5	27200	.0172	.0213	1028
1109.0	30/7	0.1731	0.1731	1.212	1038.4	22700	.0160	.0200	1065
1109.0	18/19	0.1731	0.1731	1.212	1036.6	27900	.0168	.0208	1044
1172.0	30/7	0.1780	0.1780	1.246	1097.3	24000	.0152	.0190	1101
1172.0	18/19	0.1780	0.1780	1.246	1095.5	29500	.0159	.0198	1080
1197.0	30/7	0.1799	0.1799	1.259	1120.8	24500	.0148	.0187	1115
1197.0	18/19	0.1799	0.1799	1.259	1118.9	30200	.0156	.0194	1094
1280.0	30/7	0.1860	0.1860	1.302	1198.5	26200	.0139	.0175	1160
1280.0	18/19	0.1860	0.1860	1.302	1196.5	32200	.0146	.0182	1139
1361.0	42/19	0.1494	0.1494	1.344	1273.6	30300	.0133	.0168	1196
1527.0	42/19	0.1582	0.1582	1.424	1428.8	33600	.0118	.0151	1314
1703.0	42/19	0.1671	0.1671	1.504	1593.5	37500	.0106	.0137	1363
1933.0	42/19	0.1780	0.1780	1.602	1808.8	42500	.00936	.0123	1465
2267.0	42/19	0.1928	0.1928	1.735	2142.0	49900	.00806	.0108	1594
2493.0	72/19	0.1655	0.1655	1.821	2356.9	50400	.00722	.0099	1687
2493.0	54/37	0.1655	0.1655	1.821	2354.5	57600	.00743	.0101	1670

+Ampacity based on 75°C conductor temperature, 25°C ambient temperature, with 2 ft./sec. wind in the sun.



CSA

- NMD
- NMWU
- AC90
- ACWU90
- TECK90
- T90
- USEB90 & USEI90
- RC | RA



COPPER CONDUCTORS,300 VOLTS / -25°C MIN, 90°C MAX,
PVC / NYLON INSULATION, PVC JACKET.

Applications

NMD90 cables may be used for both exposed work in dry locations or concealed work in dry or damp locations. The maximum allowable conductor temperature is 90°C. The minimum recommended installation temperature is -25°C for two-conductor cables and -10°C for three-conductor cables (with suitable handling procedures). Material should be properly stored above 0°C for 24 hours prior to installation. The maximum voltage rating for all intended applications is 300 volts. Consult the Canadian Electrical Code1 for further information related to applications.

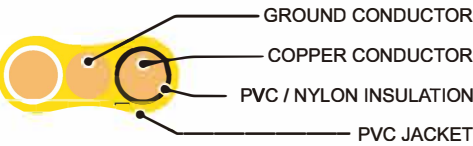
Specifications

- ASTM
- CSAC22.2 No. 48, Nonmetallic sheathed cable
- CSAC22.2 No. 38, Thermoset-insulated wires and cables
- CSAC22.2 No. 2556, FT1 Vertical Propagation Flame Test

Print Sample

001M 14AWG 2CDRS NMD90 NYLON CABLES HT FT1 300V(-40C) CSA271587 CSA C22.2 No48 02-2024

Construction



Jacket color

Numbers of conductors	Size of conductors				
	14 AWG	12 AWG	10 AWG	8 AWG	6 AWG
2					
3					

Data

Power Conductor		Bonding Conductor	Insulation Thickness		Jacket Thickness		Cable O.D.		Cable Weight		Max DC resistance at 20°C
Conductor Count	AWG	AWG	in	mm	in	mm	in	mm	lbs/mft	kg/km	Ω/km
2	14/1	14/1	0.030	0.76	0.030	0.76	0.193*0.390	4.9*9.9	69.75	103.8	8.45
2	12/1	14/1	0.030	0.76	0.030	0.76	0.209*0.425	5.3*10.8	88.36	131.5	5.31 / 8.45
2	10/1	12/1	0.030	0.76	0.030	0.76	0.232*0.484	5.9*12.3	124.52	185.3	3.34 / 5.31
2	8/7	10/1	0.035	0.89	0.045	1.14	0.319*0.025	8.1*16.4	211.40	314.6	2.14 / 3.34
2	6/7	8/7	0.045	1.14	0.045	1.14	0.378*0.795	9.6*20.2	320.22	477.2	1.35 / 2.14
3	14/1	14/1	0.030	0.76	0.030	0.76	0.350	8.9	89.30	132.9	8.45
3	12/1	14/1	0.030	0.76	0.030	0.76	0.386	9.8	116.86	173.9	5.31 / 8.45
3	10/1	12/1	0.030	0.76	0.030	0.76	0.433	11	166.31	247.5	3.34 / 5.31
3	8/7	10/1	0.035	0.89	0.045	1.14	0.583	14.8	278.26	414.1	2.14 / 3.34
3	6/7	8/7	0.045	1.14	0.045	1.14	0.701	17.8	424.21	631.3	1.35 / 2.14
3	4/7	8/7	0.045	1.14	0.06	1.52	0.843	21.4	616.4	917.3	0.848/2.14
3	3/7	8/7	0.045	1.14	0.08	2.03	0.949	24.1	798.3	1188.0	0.673/2.14
3	2/7	8/7	0.045	1.14	0.08	2.03	1.016	25.8	941.36	1400.9	0.534/2.14



NMD90

ALUMINUM

ALUMINUM CONDUCTORS, 300 VOLTS, -25°C MIN, 90°C MAX,
NON-METALLIC SHEATHED CABLE



Applications

NMD90 cables may be used for both exposed work in dry locations or concealed work in dry or damp locations. The maximum allowable conductor temperature is 90°C. The minimum recommended installation temperature is minus 25°C for three-conductor cables (with suitable handling procedures). Material should be properly stored above 0°C for 24 hours prior to installation. The maximum voltage rating for all intended applications is 300 volts.

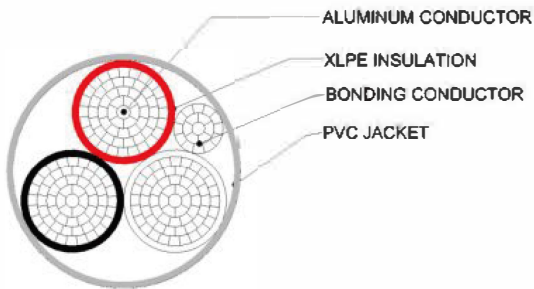
Specifications

- ASTM
- CSAC22.2 No. 48, Nonmetallic sheathed cable
- CSAC22.2 No. 38, Thermoset-insulated wires and cables
- CSAC22.2 No. 2556, FT1 Vertical Propagation Flame Test

Print Sample

001M 4AWG 3C+6AWG 1C AA8000AL XLPE NMD90 FT1 300V CSA271587 CSA C22.2 No48 03-2024

Construction



Jacket color

Gray



Data

Power Conductor		Bonding Conductor	Insulation Thickness		Jacket Thickness		Cable O.D.		Cable Weight		Max DC resistance at 20°C
Conductor Count	AWG	AWG	in	mm	in	mm	in	mm	lbs/mft	kg/km	Ω/km
3	8/7	10/1	0.035	0.89	0.045	1.14	0.583	14.8	155.78	231.8	3.52
3	6/7	8/7	0.045	1.14	0.045	1.14	0.713	18.1	226.86	337.6	2.21
3	4/7	8/7	0.045	1.14	0.06	1.52	0.839	21.4	319.59	475.6	1.39
3	3/7	6/7	0.045	1.14	0.08	2.03	0.949	24.1	413.06	614.7	1.1
3	2/7	6/7	0.045	1.14	0.08	2.03	1.016	25.8	471.19	701.2	0.875
4	8/7	10/7	0.035	0.89	0.045	1.14	0.583	14.8	192.12	285.9	3.52
4	6/7	8/7	0.045	1.14	0.045	1.14	0.713	18.1	283.17	421.4	2.21
4	4/7	8/7	0.045	1.14	0.06	1.52	0.839	21.4	387.4	591.4	1.39
4	3/7	6/7	0.045	1.14	0.08	2.03	0.949	24.1	511.17	760.7	1.1
4	2/7	6/7	0.045	1.14	0.08	2.03	1.016	25.8	585.02	870.6	0.875

CSA

NMWU

COPPER





NMWU with cross-linked polyethylene insulation and an FT1 PVC jacket

Applications

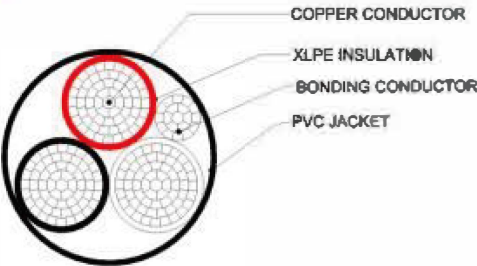
- For exposed and concealed wiring in dry or damp locations and in Category 1 and 2 locations, where not exposed to mechanical damage.
- For exposed wiring in wet locations and where subjected to the weather.
- For direct earth burial (with protection as required by inspection authority) and in accordance with CE Code part I Rule 6-300.

Applications

- CSAC22.2 No. 48, Nonmetallic sheathed cable
- CSAC22.2 No. 75, Thermoplastic Insulated Wire and Cables
- CSAC22.2 No. 2556, FT1 Vertical Propagation Flame Test
- Rated at 60°C wet dry
- Rated at -25°C
- Sun Res

Print Sample

Construction



- Conductor** Stranded Bare Soft Copper, ASTM B8
- Insulation** Cross-linked Polyethylene (XLPE)
- Bonding** Stranded Bare Soft Copper, ASTM B8
- Jacket** Polyvinyl Chloride (PVC)

Insulation colour

Conductors are white and black
(for 2 conductor cables).



Conductors are white, black and red
(for 3 conductor cables)



Data

Power Conductor				Ground Conductor		Jacket Thickness	Cable O.D.	Cable Weight
No. of Conductors	AWG	Nos of Strands	Insulation Thickness (mm)	AWG	Nos of Strands	mm	mm	kg/km
2	14	1	1.52	14	1	0.76	6.2*12.5	131.1
2	12	1	1.52	14	1	0.76	6.6*13.3	161.2
2	10	1	1.52	12	1	0.76	7.1*14.8	217.2
2	8	7	1.9	10	1	1.14	9.8*19.3	365.2
2	6	7	2.29	8	7	1.14	11.3*23.7	537.5
3	14	1	1.52	14	1	0.76	11.6	167
3	12	1	1.52	14	1	0.76	12.5	211.9
3	10	1	1.52	12	1	0.76	13.6	289.8
3	8	1	1.9	10	1	1.14	18.5	487.4
3	6	7	2.29	8	7	1.14	21.8	715.1



Metal Clad Armored Cable,600V;
RW90 Insulation,Armored,Multi-conductor,Aluminum

Applications

- Rate FT4-ST1, -40°C to 90°C and engineered specifically for demanding environments and superior flammability & smoke emission performance.
- For exposed or concealed wiring in dry locations only.
- Use in ventilated, non-ventilated and ladder-type cable trays or service entrance above ground.

Standards

- CSA Spec. C22.2, No. 51 - Armoured Cables
- CSA File Listing: LI90458
 - CSA -40°C Cold Temperature Rating
- CSAC22.2 No. 38 Thermoset-insulated wires and cables

Specifications

- CSA C22.2 No. 2556 FT4-ST1 Vertical-Tray Flame Test
- -40°C Cold Bend and -40°C Cold Impact
- HALOGEN-FREE

Print Sample

HT CABLES CSA271587 8AWG 3CDRS Type AC90 TYPE RW90 600V XLPE AA8000 AL AIA ARMORED
CSA C22.2 NO.51 (-40C) 02-2024

Construction

Conductor: Stranded AA-8000 Series Aluminum Alloy(ACM)
Insulation: Cross-linked Polyethylene Insulation (XLPE)
CSA Type XL 90°C dry/wet 600V
Bonding: Stranded AA-8000 Series Aluminum Alloy (ACM)
Armour: Aluminum or Galvanized Steel Interlock Armour

Insulation colour

Solid Black, White, Red & Blue or
Black with White Numbering

Data

Power Conductor		Insulation Thickness	Bonding Conductor	PVC Jacket	Cable O.D		Cable Weight
NO.of Conductors	AWG	mm	AWG	mm	in	mm	kg/km
3	6	1.14	8	1.27	0.905	22.99	523
3	4	1.14	6	1.27	1.022	25.96	651
3	2	1.14	6	1.27	1.130	28.70	823.5
3	1	1.40	4	1.27	1.248	31.70	1000.2
3	1/0	1.40	4	1.27	1.334	33.88	1133.3
3	2/0	1.40	4	1.27	1.425	36.20	1295
3	3/0	1.40	4	1.27	1.500	38.10	1489
3	4/0	1.40	4	1.27	1.625	41.28	1791
3	250	1.65	2	1.52	1.770	44.96	2102.8
3	300	1.65	2	1.52	1.840	46.74	2490.6
3	350	1.65	2	1.52	1.965	49.91	2681
3	400	1.65	2	1.52	2.050	52.07	2973
3	500	1.65	1	1.52	2.319	58.90	3473.1
3	600	2.03	1	1.9	2.583	65.61	4286
3	750	2.03	1/0	1.9	2.797	71.04	5058
4	6	1.14	8	1.27	0.970	24.64	634.1
4	4	1.14	6	1.27	1.115	28.32	773
4	2	1.14	6	1.27	1.220	30.99	954.7
4	1	1.40	4	1.27	1.380	35.05	1168.1
4	1/0	1.40	4	1.27	1.460	37.08	1337.5
4	2/0	1.40	4	1.27	1.620	41.15	1592
4	3/0	1.40	4	1.27	1.695	43.05	1832.1
4	4/0	1.40	4	1.27	1.816	46.13	2192
4	250	1.65	2	1.52	1.975	50.17	2690.8
4	300	1.65	2	1.52	2.150	54.61	3010
4	350	1.65	2	1.52	2.255	57.28	3347.9
4	400	1.65	2	1.52	2.340	59.44	3712.3
4	500	1.65	1	1.52	2.575	65.41	4416.8
4	600	2.03	1	1.9	2.930	74.42	5189
4	750	2.03	1/0	1.9	3.140	79.76	6160



Metal Clad Armored Cable,600V;
RW90 Insulation,Armored,Multi-conductor,Copper



Applications

- For exposed or concealed wiring in dry locations only.
- Use in ventilated, non-ventilated and ladder-type cable trays or service entrance above ground.
- Minimum recommended installation temperature minus 40°C (with suitable handling procedures).
- Maximum conductor temperature 90°C. Approved for use with ceiling fixtures.

Standards

- CSA Spec. C22.2, No. 51 - Armoured Cables
 - CSA File Listing: LL90458
 - CSA -40°C Cold Temperature Rating
- CSAC22.2 No. 38 Thermoset-insulated wires and cables

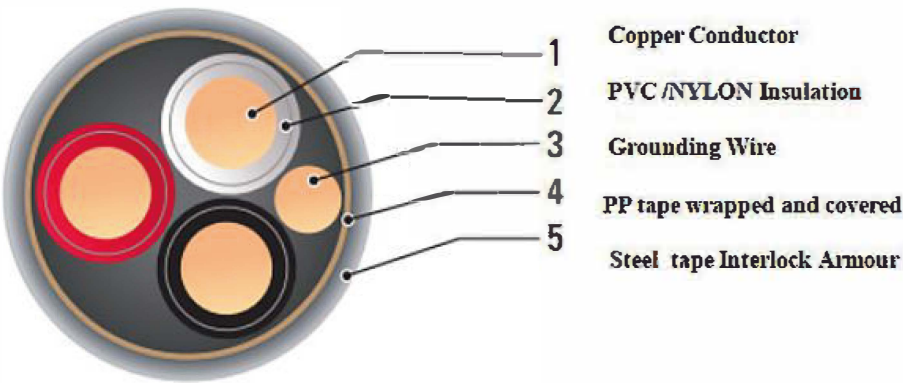
Specification

- CSA C22.2 No. 2556 FT4-ST1 Vertical-Tray Flame Test
- -40°C Cold Bend and -40°C Cold Impact
- HALOGEN-FREE

Print sample

HT CABLES CSA271587 8AWG 3CDRS Type AC90 TYPE RW90 600V XLPE Cu AIA ARMORED CSA C22.2 NO.51 (-40C) 02-2024

Construction



Conductor :Solid Soft Bare Copper Conductors, ASTM B3 8-2 AWG - Stranded Bare Soft Copper, ASTM B8
Insulation: Cross-linked Polyethylene Insulation (XLPE) CSA Type XL 90°C dry/wet 600V
Bonding: Solid Soft Bare and Insulated Copper Conductor
Armour :Aluminum or Galvanized Steel Interlock Armour

Insulation colour



Black, White, Red, Blue and Green for Insulated Ground or as requirments.
– Pairs are Black and White

Data:

Power Conductor				Ground Conductor		Cable O.D		Cable Weight
No. of Conductors	AWG	Nos of Strands	Insulation Thickness (mm)	AWG	Nos of Strands	in	mm	kg/km
2	14	1	0.76	14	1	0.484	12.3	157.8
2	12	1	0.76	14	1	0.516	13.1	185.5
2	10	1	0.76	12	1	0.559	14.2	243.2
3	14	1	0.76	14	1	0.504	12.8	184.4
3	12	1	0.76	14	1	0.539	13.7	226.7
3	10	1	0.76	12	1	0.583	14.8	303.2
3	8	7	1.14	10	7	0.732	18.6	463
3	6	7	1.14	8	7	0.815	20.7	644
3	3	7	1.14	6	7	0.984	25	1119
4	14	1	0.76	14	1	0.543	13.8	218.5
4	12	1	0.76	14	1	0.579	14.7	272.2
4	10	1	0.76	12	1	0.638	16.2	366.7

CSA

ACWU90

Aluminum



Metal Clad Armored Cable,600V or 1000V;
RW90 Insulation,Armored,PVC Jacket,Multi-conductor,Aluminum



Applications

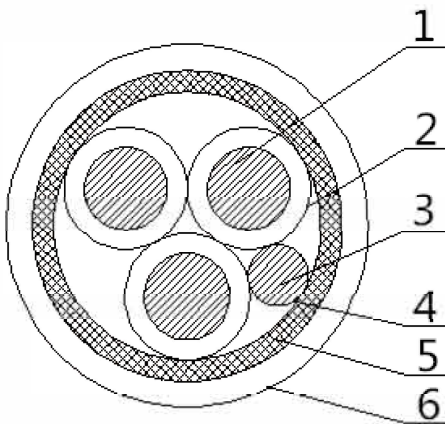
- For wet and dry locations.
- To be used for exposed and concealed wiring or where subjected to the weather.
- For direct earth burial with protection and service entrance above or below ground.
- Use in ventilated, non-ventilated and ladder-type cable trays.
- Approved for hazardous locations when installed with approved connectors.

Specification

- CSA C22.2 No. 51,Armoured Cables (Type ACWU90)
- CSA C22.2 No. 38, Thermoset - insulated wires and cables (Type Rw90)
- CSA C22.2 No. 174, Cables and cable glands for use in hazardous locations
- CSA C22.2 No. 2556, FT4 Vertical-Tray Flame Test
- -40°C Cold Bend and -40°C Cold Impact

Print sample

Construction



- 1) Al Alloy wire
- 2) XLPE insulation
- 3) Earth wire
- 4) PP Tape
- 5) Interlock armor
- 6) PVC outer sheath

Conductor: Stranded AA-8000 Series Aluminum Alloy (ACM)
Insulation: Cross-linked Polyethylene Insulation (XLPE) CSA Type XL 90°C dry/wet 600V
Bonding: Helically applied solid bare AA-8000 Series .Aluminum Alloy (ACM) strands
Armour: Aluminum Interlock Armour
Jacket : Low Acid Gas Polyvinyl Chloride (PVC)

Data:

Power Conductor		Insulation Thickness	Bonding Conductor	PVC Jacket	Cable O.D		Cable Weight
NO.of Conductors	AWG	mm	AWG	mm	in	mm	kg/km
3	6	1.14	8	1.27	0.905	22.99	523
3	4	1.14	6	1.27	1.022	25.96	651
3	2	1.14	6	1.27	1.130	28.70	823.5
3	1	1.40	4	1.27	1.248	31.70	1000.2
3	1/0	1.40	4	1.27	1.334	33.88	1133.3
3	2/0	1.40	4	1.27	1.425	36.20	1295
3	3/0	1.40	4	1.27	1.500	38.10	1489
3	4/0	1.40	4	1.27	1.625	41.28	1791
3	250	1.65	2	1.52	1.770	44.96	2102.8
3	300	1.65	2	1.52	1.840	46.74	2490.6
3	350	1.65	2	1.52	1.965	49.91	2681
3	400	1.65	2	1.52	2.050	52.07	2973
3	500	1.65	1	1.52	2.319	58.90	3473.1
3	600	2.03	1	1.9	2.583	65.61	4286
3	750	2.03	1/0	1.9	2.797	71.04	5058
4	6	1.14	8	1.27	0.970	24.64	634.1
4	4	1.14	6	1.27	1.115	28.32	773
4	2	1.14	6	1.27	1.220	30.99	954.7
4	1	1.40	4	1.27	1.380	35.05	1168.1
4	1/0	1.40	4	1.27	1.460	37.08	1337.5
4	2/0	1.40	4	1.27	1.620	41.15	1592
4	3/0	1.40	4	1.27	1.695	43.05	1832.1
4	4/0	1.40	4	1.27	1.816	46.13	2192
4	250	1.65	2	1.52	1.975	50.17	2690.8
4	300	1.65	2	1.52	2.150	54.61	3010
4	350	1.65	2	1.52	2.255	57.28	3347.9
4	400	1.65	2	1.52	2.340	59.44	3712.3
4	500	1.65	1	1.52	2.575	65.41	4416.8
4	600	2.03	1	1.9	2.930	74.42	5189
4	750	2.03	1/0	1.9	3.140	79.76	6160

CSA

TECK90

600/1000V COPPER



Applications

Teck90 cable is used extensively by the pulp and paper, chemical, mining, petrochemical and manufacturing industries in a broad range of applications, especially where cable may be subjected to mechanical damage and corrosive chemicals.

Commercial applications for Teck90 cable include apartment buildings and commercial complexes. Teck90 cable is also an economical alternative as the need for conduits or ducts and pull boxes is eliminated.

Teck90 cable is approved for use; in wet and dry locations, indoor and outdoor, in exposed and concealed wiring, in ventilated, non-ventilated and ladder type cable trays, for direct earth burial and for service entrance installations, above and below ground.

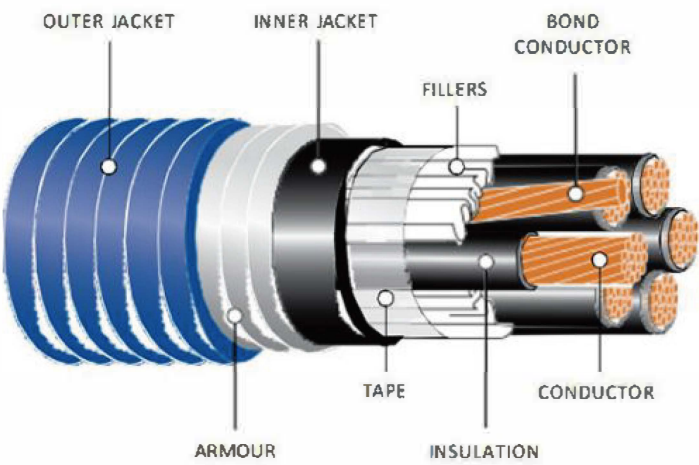
Teck90 cable combination of interlocking flexible armor with two layers of PVC jacket provide a rugged, compact and flexible cable that is resistant to corrosion, water and mechanical abuse. It is designed for use in wet or dry locations with a maximum conductor temperature of 90°C and a low temperature rating of -40°C.

Specification

CSA FT1 & Ft4
CSA C22.2 No. 131 for Teck90 cables rated up to and including 5kV
CSA C68.10 for shielded Teck90 cables rated 5kV and above (C68.10 pending)
CSA C22.2 No. 0.3 Clause 4.11.4 FT4 flame test
Class 1 Group A, B, C, D. Division 1 & 2
Class II Group E, F, G. Division 1 & 2
ICEA S-66-524 / NEMA WC7 for Teck90 cables rated above 5kV
IEEE 383 &1202 (70,000 BTU/hr) flame test
ICEA T-29-520 (210,000 BTU/hr) Vertical Cable Tray Flame Test
ICEA T-30-520 (70,000 BTU/hr) Vertical Cable Tray Flame Test

Print sample

Construction



Conductor: Class B stranded copper, compressed or compact, in accordance with ASTM B3 and B8.

Insulation: Cross-Linked Polyethylene (XLPE), Colour Code: 2/C black, white; 3/C red, black, blue; 4/C red, black, blue, white; For 5/C cables or more, the insulation is black and numbered

NO.OF CONDUCTORS	COLOR
2	 
3	  
4	   
5 or more	    

Grounding Conductors: Uninsulated Class B stranded grounding conductor

Inner Jacket: Black Polyvinyl Chloride (PVC)

Armor: Aluminum Interlocked Armour (AIA)

Overall Jacket: Black PVC (optional colors available)

Data 600V

Power conductor		Number of strands	Bonding Conductor	Insulation Thickness	Jacket Thickness	Armor O.D.	Sheath O.D.	Cable O.D.
cores	size	Nos.	size	mm	mm	mm	mm	mm
2	14	7	14	0.76	1.14	14.1	1	16
2	12	7	14	0.76	1.14	15.1	1	17
2	10	7	12	0.76	1.14	16.3	1	18
2	8	7	10	1.14	1.52	19.5	1	22
2	6	7	8	1.14	1.52	21.3	1	23
2	4	7	8	1.14	1.52	23.5	1	26
2	3	7	6	1.14	1.52	24.7	1	27
2	2	7	6	1.14	2.03	27.3	1	29
2	1	19	6	1.4	2.03	29.9	1	32
2	1/0	19	6	1.4	2.03	31.8	1	34
2	2/0	19	6	1.4	2.03	33.9	1	36
2	3/0	19	4	1.4	2.03	36.2	1	38
2	4/0	19	4	1.4	2.03	38.9	1.2	41
2	250	37	4	1.65	2.03	42.2	1.2	45
2	300	37	4	1.65	2.03	44.7	1.2	47
2	350	37	3	1.65	2.79	48.6	1.2	51
2	400	37	3	1.65	2.79	50.8	1.2	53
2	450	37	3	1.65	2.79	52.8	1.2	55
2	500	37	3	1.65	2.79	54.7	1.2	57
2	550	37	3	2.03	2.79	58.2	1.5	61
2	600	61	2	2.03	2.79	60.1	1.5	63
2	650	61	2	2.03	2.79	61.7	1.5	65
2	700	61	2	2.03	2.79	53.4	1.5	66
2	750	61	2	2.03	2.79	64.9	1.5	68

Data 600V

Power conductor		Number of strands	Bonding Conductor	Insulation Thickness	Jacket Thickness	Aarmor O.D.	Sheath O.D.	Cable O.D.
cores	size	Nos.	size	mm	mm	mm	mm	mm
3	14	7	14	0.76	1.14	14.7	1	17
3	12	7	14	0.76	1.14	15.7	1	18
3	10	7	12	0.76	1.14	17	1	19
3	8	7	10	1.14	1.52	20.4	1	22
3	6	7	8	1.14	1.52	22.3	1	24
3	4	7	8	1.14	1.52	24.8	1	27
3	3	7	6	1.14	2.03	27.1	1	29
3	2	7	6	1.14	2.03	28.8	1	31
3	1	19	6	1.4	2.03	31.6	1	34
3	1/0	19	6	1.4	2.03	33.6	1	36
3	2/0	19	6	1.4	2.03	35.8	1	38
3	3/0	19	4	1.4	2.03	38.4	1.2	41
3	4/0	19	4	1.4	2.03	41.3	1.2	44
3	250	37	4	1.65	2.03	44.8	1.2	47
3	300	37	4	1.65	2.79	49.1	1.2	51
3	350	37	3	1.65	2.79	51.6	1.2	54
3	400	37	3	1.65	2.79	54	1.2	56
3	450	37	3	1.65	2.79	56.2	1.2	59
3	500	37	3	1.65	2.79	58.2	1.5	61
3	550	37	3	2.03	2.79	62	1.5	65
3	600	61	2	2.03	2.79	64.1	1.5	67
3	650	61	2	2.03	2.79	65.8	1.5	69
3	700	61	2	2.03	2.79	67.6	1.5	71
3	750	61	2	2.03	2.79	69.3	1.5	72

Data 1000V

Power Conductor		Numbers of strands	Bonding Conductor	Insulation Thickness	Jacket Thickness	Sheath Thickness	Cable O.D.
cores	size	Nos.	size	mm	mm	mm	mm
2	12	7	14	1.14	1.14	1	19.2
3	12	7	14	1.14	1.14	1	19.9
2	10	7	12	1.14	1.14	1	20.4
3	10	7	12	1.14	1.52	1	22
2	8	7	10	1.14	1.52	1	22.7
3	8	7	10	1.14	1.52	1	23.7
2	6	7	8	1.52	1.52	1	26.1
3	6	7	8	1.52	1.52	1	28.4
2	4	7	8	1.52	2.03	1	30.6
3	4	7	8	1.52	2.03	1	32
2	3	7	6	1.52	2.03	1	32
3	3	7	6	1.52	2.03	1	33.5
2	2	7	6	1.52	2.03	1	33.6
3	2	7	6	1.52	2.03	1	35.3
2	1	19	6	2.03	2.03	1	37.6
3	1	19	6	2.03	2.03	1	39.6
2	1/0	19	6	2.03	2.03	1	38.8
3	1/0	19	6	2.03	2.03	1.2	41.4
2	2/0	19	6	2.03	2.03	1.2	41.5
3	2/0	19	6	2.03	2.03	1.2	43.8
2	3/0	19	4	2.03	2.03	1.2	43.9
3	3/0	19	4	2.03	2.03	1.2	46.4
2	4/0	19	4	2.03	2.03	1.2	46.7
3	4/0	19	4	2.03	2.03	1.2	50.4
2	250	37	4	2.28	2.03	1.2	51.1
3	250	37	4	2.28	2.79	1.2	55.6
2	300	37	4	2.28	2.79	1.2	55.3
3	300	37	4	2.28	2.79	1.2	58.4
2	350	37	3	2.28	2.79	1.2	57.7
2	400	37	3	2.28	2.79	1.2	60.1
3	400	37	3	2.28	2.79	1.5	64.3
2	500	37	3	2.28	2.79	1.5	65.2
3	500	37	3	2.28	2.79	1.5	69.1



Copper Conductor, 600V,90°C MAX - 40°C MIN,NO.14 AWG to 1000 KCMIL,Sunlight Resistant, FT4 Flame Test Rating - (in all colours 350 KCMIL & larger)

Applications

- For exposed wiring and raceways (except cable tray) in wet and dry locations.
- Minimum recommended installation temperature of minus 40°C with proper handling procedures.

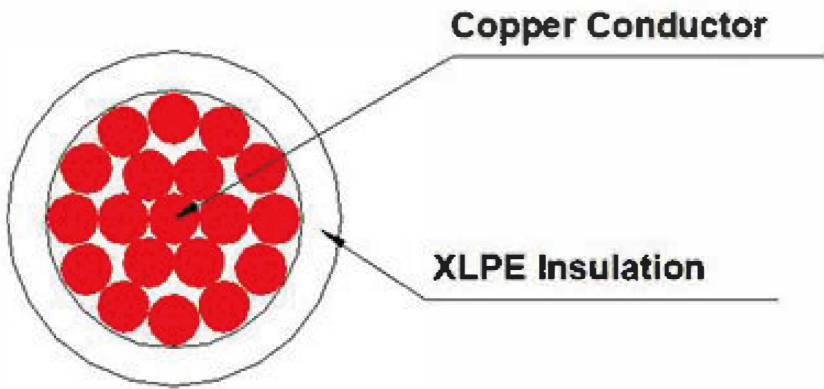
Specifications and Compliances

- CSAC22.2 No. 38, Thermoset-insulated wires and cables (Type RW90)
- -40°C Cold Bend and -40°C Cold Impact
- Sunlight Resistant SUN RES if black only;

Print sample

001M 2/0 AWG COPPER CABLES TYPE RW90 HT FT1 600V SR CSA271587 CSA C22.2 No38 05-2024

Construction



Conductor: RW90 conductor is a compact soft drawn bare copper, with Class B stranding per ASTM
Insulation: RW90 has abrasion, heat and moisture resistant cross-linked polyethylene insulation XLPE.
Single copper conductor with low temperature, moisture resisting XLPE (cross linked polyethylene) insulation.
Standard sizes No. 8 AWG and larger are also sunlight resistant, marked "Sun Res". Rated FT4 in sizes 350 KCMIL and larger.

Insulation colour



- Standard colours are available in black, red, blue, white and green or as requirments.

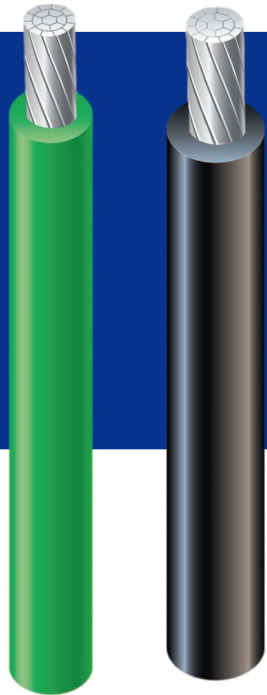
Data

Conductor Size	Nos of Strands	Insulation Thickness		Cable O.D.		Cable Weight	
		In	mm	in	mm	lbs/Mft	kg/km
14/1	1	0.030	0.76	0.124	3.15	16	24
12/1	1	0.030	0.76	0.141	3.58	24	35
10/1	1	0.030	0.76	0.162	4.11	36	53
14/7	7	0.030	0.76	0.133	3.38	18	26
12/7	7	0.030	0.76	0.151	3.84	25	38
10/7	7	0.030	0.76	0.174	4.42	38	57
8	19	0.045	1.14	0.224	5.69	63	93
6	19	0.045	1.14	0.260	6.60	93	138
4	19	0.045	1.14	0.305	7.75	148	220
2	19	0.045	1.14	0.370	9.40	232	345
1	19	0.055	1.4	0.410	10.41	295	439
1/0	19	0.055	1.4	0.451	11.46	362	538
2/0	19	0.055	1.4	0.495	12.57	447	665
3/0	19	0.055	1.4	0.532	13.51	563	838
4/0	19	0.055	1.4	0.596	15.14	700	1042
250	37	0.065	1.65	0.670	17.02	820	1220
350	37	0.065	1.65	0.807	20.50	1187	1766
500	37	0.065	1.65	0.890	22.61	1672	2488
600	37	0.065	1.65	1.030	26.16	2075	3088
750	61	0.065	2.03	1.119	28.42	2412	3588
1000	61	0.080	2.03	1.265	32.13	3223	4796

Solar cable

RW90

Aluminum



Single 8000 Series Aluminum Conductor, 600V Alumaflex Strand, No. 6 AWG to 1000 KCMIL, 90°C MAX -40°C MIN, Sunlight Resistant.

Applications

- For exposed wiring and raceways (except cable tray) in wet and dry locations.
- Minimum recommended installation temperature of minus 40°C with proper handling procedures.

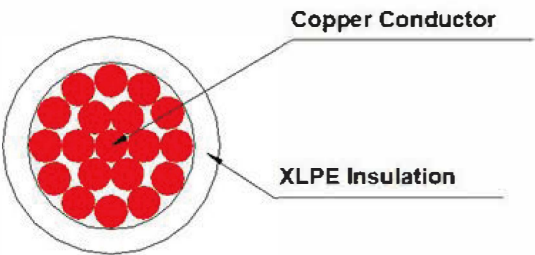
Specification

- Single aluminum conductor
- CSA Spec. C22.2, No. 38
- CSA FT4 Flame Test Rating - sizes 350 KCMIL and Larger
- Sunlight Resistant
- CSA File Listing: LL90458
- Lead Free and RoHS compliant
- -40°C Cold Bend and -40°C Cold Impact

Print sample

001M 1/0 AWG AA8000AL CABLES TYPE RW90 HT FT1 600V SR CSA271587 CSA C22.2 No38 06-2024

Construction



Conductor: Stranded AA-8000 Series Aluminum Alloy (ACM)

Insulation: Cross-linked Polyethylene Insulation (XLPE)
CSA Type XL 90°C dry/wet 600V

Insulation colour



- Standard colours are available in black, red, blue, white and green or as requirments.

Data

Conductor Size	Nos of Strands	Insulation Thickness		Cable O.D.		Cable Weight	
		in	mm	in	mm	lbs/Mft	kg/km
6	7	0.045	1.14	0.259	6.58	37	55
4	7	0.045	1.14	0.303	7.70	55	82
2	7	0.045	1.14	0.358	9.09	82	122
1	8	0.055	1.40	0.409	10.39	104	155
1/0	10	0.055	1.40	0.446	11.33	128	190
2/0	12	0.055	1.40	0.486	12.34	157	234
3/0	16	0.055	1.40	0.533	13.54	193	287
4/0	19	0.055	1.40	0.585	14.86	239	356
250	22	0.065	1.65	0.650	16.51	286	426
300	35	0.065	1.65	0.703	17.86	339	504
350	35	0.065	1.65	0.749	19.03	397	582
400	35	0.065	1.65	0.792	20.12	442	658
500	35	0.065	1.65	0.869	22.07	544	809
600	58	0.080	2.03	0.976	24.79	663	987
750	58	0.080	2.03	1.071	27.20	816	1214
1000	58	0.080	2.03	1.223	31.06	1070	1592

T90

CSA

THHN THHN-2

TWN75 THW

Copper Conductor, T90 / THHN / THWN-2 / TWN75 600V,
Thermoplastic-Insulated Cable, All Sizes Rated TWN75



Applications

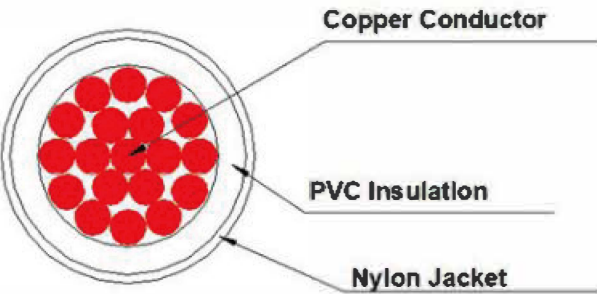
suitable for dry locations not exceeding 90°C. For Gasoline and Oil Resistant II applications not to exceed 75°C. T90 Nylon c(UL) - cables are primarily intended for installation in conduit (raceways) as exposed wiring in dry locations not exceeding 90°C. TWN75 c(UL) - suitable for wet or dry locations at not more than 75°C. The maximum voltage rating for all intended applications is 600 volts. Minimum installation handling temperature is limited to -25°C. Minimum operating temperature limited to -40°C.

Specification

UL83: Standard for requirements for 600V, single conductor thermoplastic-insulated wire and cables.
Built to CSA C22.2 No.75, LL90458
Canadian Electrical Code
CSA FT-1 - Flame Test
UL, c(UL) and CSA listed

Print sample

Construction



Insulation colour



Data

Conductor	Insulation Thickness		Nylon Thickness		Cable O.D.		Cable Weight		Max DC resistance at 20°C
AWG/Kcmil	in	mm	in	mm	in	mm	lbs/mft	kg/km	Ω/km
14/1	0.015	0.38	0.004	0.1	0.102	2.6	15.9	23.6	8.45
12/1	0.015	0.38	0.004	0.1	0.122	3.1	23.79	35.4	5.31
10/1	0.02	0.51	0.004	0.1	0.15	3.8	37.76	56.2	3.34
14/19	0.015	0.38	0.004	0.1	0.114	2.9	16.8	25.0	8.62
12/19	0.015	0.38	0.004	0.1	0.134	3.4	25.13	37.4	5.43
10/19	0.02	0.51	0.004	0.1	0.169	4.3	39.65	59.0	3.41
8/19	0.03	0.76	0.005	0.13	0.22	5.6	64.91	96.6	2.14
6/19	0.03	0.76	0.005	0.13	0.256	6.5	97.44	145.0	1.35
4/19	0.04	1.02	0.006	0.15	0.319	8.1	155.23	231.0	0.848
3/19	0.04	1.02	0.006	0.15	0.358	9.1	192.39	286.3	0.673
2/19	0.04	1.02	0.006	0.15	0.39	9.9	237.54	353.5	0.534
1/19	0.05	1.27	0.007	0.18	0.449	11.4	304.13	452.6	0.423
1/0 19	0.05	1.27	0.007	0.18	0.472	12.0	373.62	556.0	0.335
2/0 19	0.05	1.27	0.007	0.18	0.516	13.1	462.79	688.7	0.266
3/0 19	0.05	1.27	0.007	0.18	0.563	14.3	575.34	856.2	0.211
4/0 19	0.05	1.27	0.007	0.18	0.618	15.7	714.98	1064.0	0.167
250/37	0.06	1.52	0.008	0.2	0.689	17.5	851.18	1266.7	0.142
300/37	0.06	1.52	0.008	0.2	0.74	18.8	1008.83	1501.3	0.118
350/37	0.06	1.52	0.008	0.2	0.787	20.0	1165.94	1735.1	0.101
400/37	0.06	1.52	0.008	0.2	0.835	21.2	1328.82	1977.5	0.0885
500/37	0.06	1.52	0.008	0.2	0.925	23.5	1657.47	2452.0	0.0709
600/61	0.07	1.78	0.009	0.23	1.016	25.8	1798.08	2943.7	0.059
750/61	0.07	1.78	0.009	0.23	1.118	28.4	2450.20	3646.3	0.0472



Underground Distribution Cables. Jacketed Two-Conductor Parallel

Applications

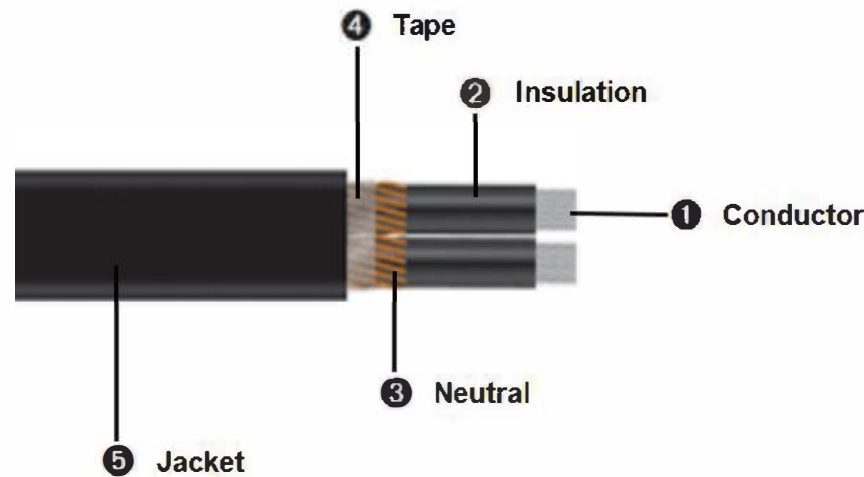
Underground Service Entrance Cable is typically used to bring power from the utility's electrical service to the main service panel of a building or residence. USEB cable is typically made up of multiple conductors that are insulated and wrapped in a protective jacket.

Specification

CSA C22.2 No. 52

Print sample

Construction



Data

Size AWG/Kcmil	Reduced Neutral Conductor		Insulation Thickness mm.	Jacket Thickness mm.	Thickness * Diameter mm*mm
	Size AWG/Kcmil	Strands Nos			
4	8	7	1.14	2.03	15*22
2	6	11	1.14	2.03	16*25
1	5	13	1.4	2.03	17*28
1/0	4	17	1.4	2.03	18*30
2/0	3	21	1.4	2.03	19*32
3/0	2	26	1.4	2.03	20*34
4/0	1	21	1.4	2.03	24*39
250	1/0	26	1.65	2.03	24*40
300	4/0	21	1.65	2.79	29*46
350	3/0	26	1.65	2.79	29*48
500	250	25	1.65	2.79	33*55



USEI-90

600V

Underground Distribution Cables. Jacketed Two-Conductor Parallel.



Applications

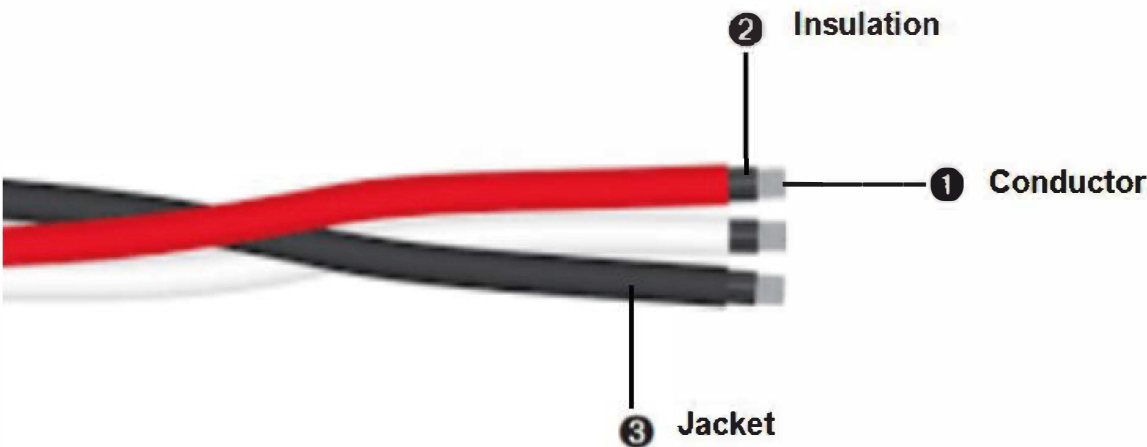
Suitable for direct burial or installed in ducts, resistant to cut-through and sunlight. It is intended for use in underground systems operating at 600V or less. Portions of the cable may be exposed to sunlight on termination poles and during storage.

Specification

CSA C22.2 No. 52

Print sample

Construction



Data

Conductor	Phase Conductor Size	Neutral Conductor Size	Insulation Thickness		Jacket Thickness		O.D.	Net Weight
			Phase	Neutral	Phase	Neutral		
Nos	AWG/Kcmil	AWG/Kcmil	mm	mm	mm	mm	mm	kg/km
2	2	4	1.14	1.14	0.76	0.76	22	413
2	2	2	1.14	1.14	0.76	0.76	23	458
2	1/0	2	1.4	1.14	1.14	1.14	28	650
2	1/0	1/0	1.4	1.4	1.14	1.14	29	746
2	3/0	1/0	1.4	1.4	1.14	1.14	33	961
2	3/0	3/0	1.4	1.4	1.14	1.14	34	1068
2	4/0	2/0	1.4	1.4	1.14	1.14	36	1157
2	4/0	4/0	1.4	1.4	1.14	1.14	37	1290
2	250	250	1.65	1.65	1.65	1.65	43	1628
2	500	500	1.65	1.65	1.65	1.65	55	2871
3	2	4	1.14	1.14	0.76	0.76	25	566
3	1/0	2	1.4	1.14	1.14	0.76	31	899
3	3/0	1/0	1.4	1.4	1.14	1.14	37	1317
3	4/0	2/0	1.4	1.4	1.14	1.14	40	1587
3	4/0	4/0	1.4	1.4	1.14	1.14	42	1720
3	250	250	1.65	1.65	1.65	1.65	48	2170



RC90

Copper



2-Hour fire resistive cables ,Low smoke-zero halogen (FT4-ST1)
Armoured and -40°C to 90°C options

Applications

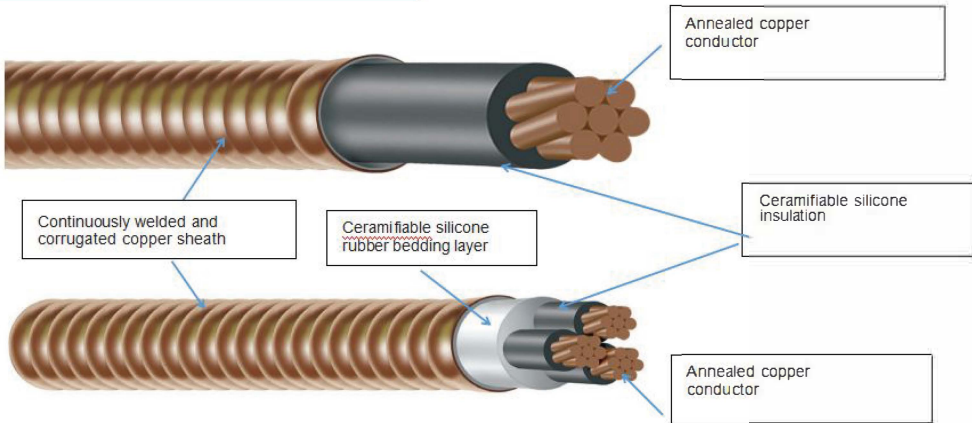
- Fire Pumps
- Emergency Systems
- Exhaust & Pressurization fans
- Fireman’s Elevators
- Fire Alarm
- Egress elevators
- Emergency Device activation
- Lighting & Signage
- ATS

Standards

- CSA Listed type RC90 per CSA 22.2 No. 123
- 2 Hour Fire Rating per ULC S139
- Electrical Circuit Integrity System #120 (FHIT7) – ULC Canada
- Wet location rating 90°C
- Meets NFPA 130 for Transit and NFPA 502 for tunnel applications
- Single conductor ampacity when installed per CEC Table 1
- FHIT7 120, 120A, 60 & 60A

Print sample

Construction



Data

Power Conductor		Nominal Core Diameter		Nominal Armor Diameter		Nominal Cable Diameter over Outer Jacket		Approximate Net Weight	
Size (AWG kcmil)	No.of Conductors	In	mm	In	mm	In	mm	(Lbs/1000 ft)	kg/km
14	2	0.49	12.446	0.82	20.828	0.92	23.368	395	587.82
14	3	0.52	13.208	0.82	20.828	0.92	23.368	425	632.47
14	4	0.57	14.478	0.89	22.606	0.99	25.146	480	714.32
12	2	0.53	13.462	0.82	20.828	0.92	23.368	415	617.59
12	3	0.56	14.224	0.89	22.606	0.99	25.146	475	706.88
12	4	0.62	15.748	0.94	23.876	0.104	2.6416	575	855.69
10	2	0.58	14.732	0.89	22.606	0.99	25.146	475	706.88
10	3	0.61	15.494	0.94	23.876	1.04	26.416	542	806.58
10	4	0.67	17.018	1	25.4	1.11	28.194	635	944.98
8	3	0.72	18.288	1.04	26.416	1.15	29.21	675	1004.51
8	4	0.8	20.32	1.16	29.464	1.26	32.004	815	1212.85
6	3	0.8	20.32	1.16	29.464	1.26	32.004	840	1250.06
6	4	0.89	22.606	1.22	30.988	1.32	33.528	990	1473.28
4	3	0.91	23.114	1.24	31.496	1.34	34.036	1140	1696.51
4	4	1	25.4	1.35	34.29	1.45	36.83	1285	1912.29
3	3	0.97	24.638	1.3	33.02	1.4	35.56	1210	1800.68
3	4	1.07	27.178	1.41	35.814	1.51	38.354	1475	2195.04
2	3	1.04	26.416	1.41	35.814	1.51	38.354	1400	2083.43
2	4	1.15	29.21	1.5	38.1	1.6	40.64	1700	2529.88
1	3	1.21	30.734	1.59	40.386	1.71	43.434	1715	2552.20
1	4	1.34	34.036	1.73	43.942	1.85	46.99	2125	3162.35
1/0	1	0.66	16.764	1	25.4	1.11	28.194	815	1212.85

Power Conductor		Nominal Core Diameter		Nominal Armor Diameter		Nominal Cable Diameter over Outer Jacket		Approximate Net Weight	
Size (AWG kcmil)	No.of Conductors	In	mm	In	mm	In	mm	(Lbs/1000 ft)	kg/km
1/0	3	1.29	32.766	1.67	42.418	1.79	45.466	1990	2961.45
1/0	4	1.43	36.322	1.82	46.228	1.94	49.276	2485	3698.09
2/0	1	0.7	17.78	1.04	26.416	1.15	29.21	925	1376.55
2/0	3	1.39	35.306	1.8	45.72	1.92	48.768	2345	3489.74
2/0	4	1.54	39.116	1.95	49.53	2.07	52.578	2935	4367.76
3/0	1	0.75	19.05	1.08	27.432	1.18	29.972	1055	1570.01
3/0	3	1.49	37.846	1.92	48.768	2.04	51.816	2755	4099.89
3/0	4	1.68	42.672	2.12	53.848	2.25	57.15	3530	5253.22
4/0	1	0.81	20.574	1.16	29.464	1.26	32.004	1235	1837.88
4/0	3	1.62	41.148	2.04	51.816	2.16	54.864	3305	4918.38
4/0	4	1.82	46.228	2.26	57.404	2.41	61.214	4205	6257.73
250	1	0.89	22.606	1.22	30.988	1.32	33.528	1410	2098.31
250	3	1.8	45.72	2.26	57.404	2.41	61.214	3870	5759.19
250	4	2	50.8	2.46	62.484	2.63	66.802	4925	7329.21
350	1	0.99	25.146	1.35	34.29	1.45	36.83	1795	2671.25
350	3	2.02	51.308	2.48	62.992	2.63	66.802	5015	7463.14
350	4	2.25	57.15	2.71	68.834	2.86	72.644	6420	9554.01
500	1	1.13	28.702	1.48	37.592	1.6	40.64	2350	3497.19
500	3	2.3	58.42	2.82	71.628	2.97	75.438	6720	10000.46
500	4	2.6	66.04	3.13	79.502	3.3	83.82	8740	13006.55
750	1	1.34	34.036	1.73	43.942	1.85	46.99	3285	4888.62

CSA

RA90

Copper

600V Three Conductor Copper, Cross Linked Polyethylene (XLPE) insulation XHHW-2 Continuous Corrugated Welded Armor - ARMOR-X®, Polyvinyl Chloride (PVC) Jacket with 3 Bare CU Ground



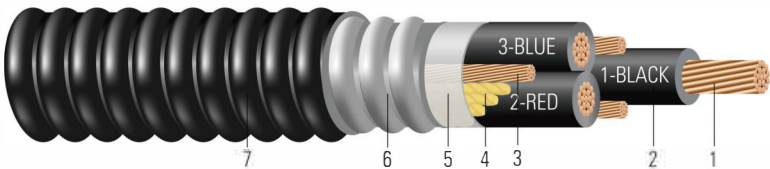
Applications

Power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, 250°C for short circuit conditions, and -50°C for cold bend. For uses in Class I, II, and III, Division 1 and 2 hazardous locations per NEC Article 501, 502, and 503. Suitable for VFD application.

Specification

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1569 Metal-Clad Cables
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- CSA C22.2 No. 123 Metal sheathed cables RA90-HL
- ICEA S-58-679 Control Cable Conductor Identification Method 3 (1-BLACK, 2-RED, 3-BLUE)
- ICEA S-58-679 Control Cable Conductor Identification Method 4
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- IEEE 1202 FT4 Vertical Tray Flame Test (70,000 Btu/hr) and ICEA T-29-520 - (210,000 Btu/hr)

Construction



1. Conductor: Class B compressed stranded bare copper per ASTM B3 and B8
2. Insulation: Cross Linked Polyethylene (XLPE) Type XHHW-2
3. Grounding Conductor: Class B compressed stranded bare copper per ASTM B3 and B8
4. Filler: Polypropylene filler
5. Binder: Polypropylene tape
6. Armor: ARMOR-X® Continuous Corrugated Welded Armor
7. Overall Jacket: Polyvinyl Chloride (PVC) Jacket

Data

Power Conductor		Diameter Over Conductor		Insul. Thickness	Ground size	Dia. Over Armor		Jacket Thickness	Approx. OD		Approx. Weight	
Conductor Size (AWG kcmil)	No.of Conductors	In	mm	mm	No. x AWG	In	mm	mm	In	mm	lb/1000ft	kg/km
8	3	0.141	3.58	1.14	3x14	0.750	19.05	1.27	0.856	21.74	407	605.68
6	3	0.177	4.50	1.14	3x12	0.840	21.34	1.27	0.946	24.03	547	814.03
4	3	0.225	5.72	1.14	3x12	0.920	23.37	1.27	1.026	26.06	714	1062.55
2	3	0.282	7.16	1.14	3x10	1.060	26.92	1.27	1.166	29.62	1070	1592.34
1/0	3	0.361	9.17	1.40	3x10	1.350	34.29	1.27	1.456	36.98	1745	2596.85
2/0	3	0.405	10.29	1.40	3x10	1.470	37.34	1.27	1.576	40.03	1935	2879.60
3/0	3	0.456	11.58	1.40	3x8	1.540	39.12	1.52	1.666	42.32	2420	3601.36
4/0	3	0.512	13.00	1.40	3x8	1.590	40.39	1.52	1.716	43.59	2837	4221.92
250	3	0.558	14.17	1.65	3x8	1.845	46.86	1.52	1.971	50.06	3351	4986.84
350	3	0.661	16.79	1.65	3x6	2.040	51.82	1.52	2.166	55.02	4535	6748.82
500	3	0.789	20.04	1.65	3x6	2.290	58.17	1.91	2.448	62.18	5990	8914.10
600	3	0.865	21.97	2.03	3x6	2.670	67.82	1.91	2.828	71.83	7243	10778.77
750	3	0.968	24.59	2.03	3x4	3.000	76.20	1.91	3.158	80.21	9645	14353.34
1000	3	1.117	28.37	2.03	3x4	3.220	81.79	2.16	3.390	86.11	11993	17847.55



UL

- XHHW-2
- SEU | SER
- NM-B | UF-B
- SOOW | SJOOW
- DLO | Welding cable
- MV90

UL

XHHW-2

Aluminum

1000 Volts / 600 Volts Aluminum Alloy (AA-8176) Conductor.
XLPE insulation. Moisture Resistant High Heat.



Applications

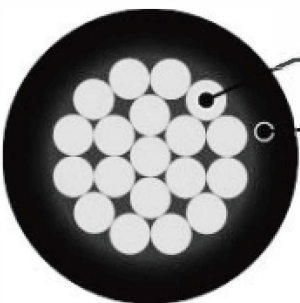
XHHW-2 aluminum conductors are primarily used in conduit or recognized raceways for service and feeder wiring as specified in the National Electrical Code. XHHW-2 conductors may be used in wet or dry locations at temperatures not to exceed 90°C. Voltage rating for XHHW-2 conductors is 1000 volts. Suitable for use in Health Care Facilities per section 517.160 of the NEC where a dielectric constant of 3.5 or less may be specified. This product is designed to be installed without the application of pulling lubricant.

Specification

UL 44
NEMA WC-70
Requirements of the National Electrical Code ASTM B800, B801
Federal Specification J-C-30B Sunlight resistant

Print sample

Construction



ALUMINUM CONDUCTOR

XLPE INSULATION

Insulation colour

Black, white, red, blue, brown, orange, yellow, purple, gray, and green.

Data

Conductor		Insulation Thickness (mils)	O.D. (mils)	Net Weight /1000 lbs	Allowable Ampacity At 90° C
Size AWG/kcmil	Strands Nos.				
8	7	45	227	30	45
6	7	45	259	39	55
4	7	45	303	57	75
2	6	45	358	85	100
1	8	55	413	108	115
1/0	10	55	350	180	150
2/0	12	55	490	161	150
3/0	16	55	537	198	175
4/0	19	55	589	243	205
250	22	65	650	293	230
300	35	65	700	346	260
350	35	65	746	398	280
400	35	65	789	449	305
500	35	65	866	552	350
600	58	80	973	675	385
700	58	80	1037	777	425
750	58	80	1068	829	435
900	58	80	1162	979	480
1000	58	80	1220	1085	500



Type SE, Style SEU Service Entrance Cable. 600 Volt. Aluminum Alloy (AA-8176) Conductors. Individual Conductors Rated XHHW or THHN/THWN Jacket and Inner Conductors are Sunlight Resistant.



Applications

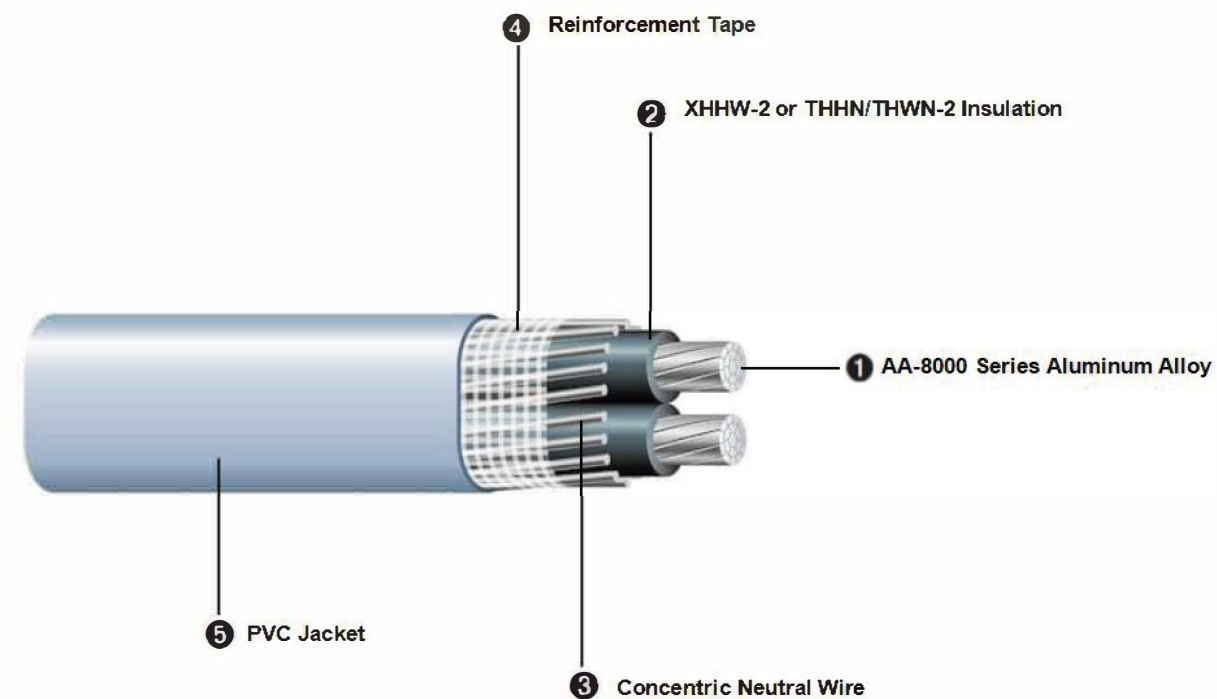
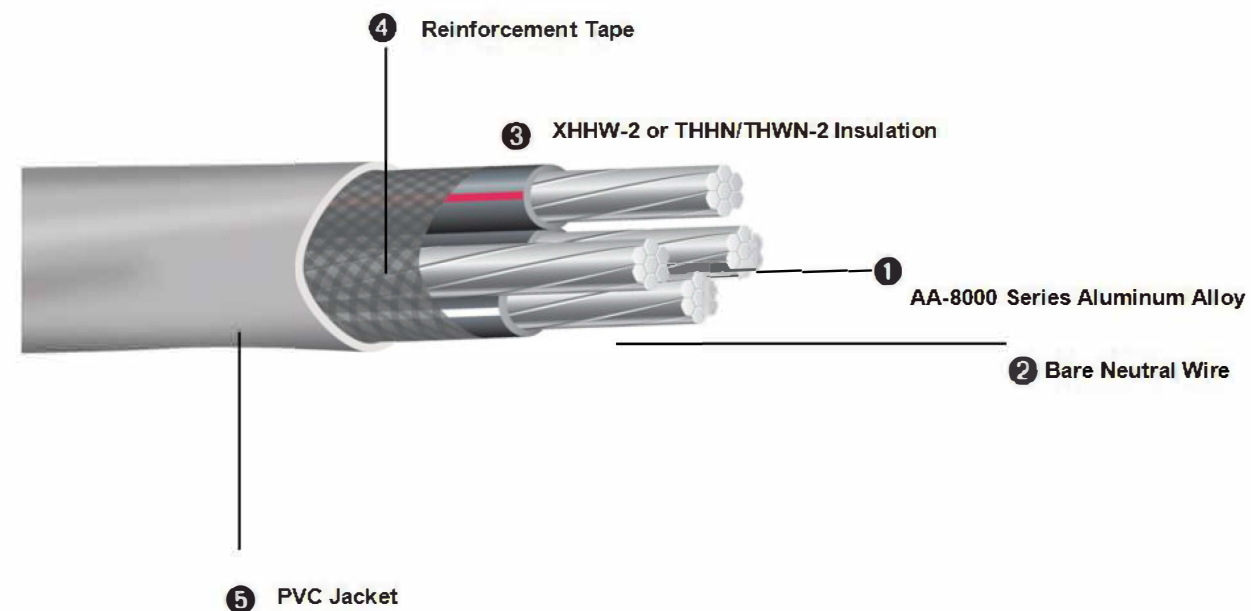
Type SE, service entrance cable is used to convey power from the service drop to the meter base and from the meter base to the distribution panelboard; however, it may be used in all applications where Type SE cable is permitted. SE may be used in wet or dry above ground locations at temperatures not to exceed 90C. The voltage rating is 600 volts.

Specification

ASTM- All applicable standards
 UL Standard 44 for XHHW-2 conductors
 UL Standard 83 for THHN/THWN conductors
 UL Standard 854

Print sample

Construction



Data SER

Conductor	Stranding		O.D. (MILS)	Allowable Ampacities				Net Weight Per 1000’ (LBS)
Size/Const. AWG or Kcmil	Phase Conductor & Neutral	Equipment Ground Conductor		60°C	75 °C	90 °C	Dwelling	
SER (AL) TWO CONDUCTORS								
6-6-6	7	/	650	40	50	60	/	150
4-4-4	7	/	745	55	65	75	/	203
4-4-6	7	/	745	55	65	75	/	203
2-2-2	7	/	864	75	90	100	100	290
SER (AL) THREE CONDUCTORS								
8-8-8-8	1	1	612	30	40	45	/	136
6-6-6-6	7	7	717	40	50	60	/	196
4-4-4-6	7	7	823	55	65	75	/	252
2-2-2-4	7	7	956	75	90	100	100	359
1-1-1-3	8	7	1079	85	100	115	110	449
1/0-1/0-1/0-2	10	1	1168	100	120	135	125	540
2/0-2/0-2/0-1	12	1	1264	115	135	150	150	652
3/0-3/0-3/0-1/0	16	1	1371	130	155	175	175	786
4/0-4/0-4/0-2/0	19	1	1496	150	180	200	200	960
250-250-250-3/0	22	1	1839	170	205	225	225	1458

Conductor	Stranding		O.D. (MILS)	Allowable Ampacities				Net Weight Per 1000' (LBS)
Size/Const. AWG or Kcmil	Phase Conductor & Neutral	Equipment Ground Conductor		60°C	75°C	90°C	Dwelling	
SER (AL) FOUR CONDUCTORS								
2-2-2-2-4	6	7	1059	75	90	100	100	452
2/0-2/0-2/0-2/0-1	12	1	1404	115	135	150	150	827
4/0-4/0-4/0-4/0-2/0	19	1	1672	150	180	205	200	1228
250-250-250-250-3/0	22	1	1847	170	205	230	225	
Notes								
SER Cable's phase conductors are identified by a colored stripe on the insulation.								
3 conductor - Black and Black with Red Stripe								
4 conductor - Black, Black with White Stripe and Black with Red Stripe								
5 conductor - Black, Black with White Stripe, Black with Red Stripe and Black with Blue Stripe								
Data SEU								
Conductor	Stranding		O.D. (MILS)	Allowable Ampacities				Net Weight Per 1000' (LBS)
Size/Const. AWG or Kcmil	Phase Conductor & Neutral	Equipment Ground Conductor		60°C	75°C	90°C	Dwelling	
SEU (AL) TWO CONDUCTORS								
6-6-6	7	8	430*687	40	50	60	/	145
4-4-4	7	12	499*800	55	65	75	/	198
4-4-6	7	15	474*775	55	65	75	/	181
2-2-2	7	14	569*925	75	90	100	100	283
2-2-4	7	18	554*910	5	90	100	100	259
2/0-2/0-2/0	18	18	736*1221	115	135	150	150	514
2/0-2/0-1	18	14	720*1205	115	135	150	150	468
4/0-4/0-4/0	18	18	878*1462	150	180	205	205	765
4/0-4/0-2/0	18	18	835*1419	150	180	205	205	691

Notes

SER Cable's phase conductors are identified by a colored stripe on the insulation.
3 conductor - Black and Black with Red Stripe
4 conductor - Black, Black with White Stripe and Black with Red Stripe
5 conductor - Black, Black with White Stripe, Black with Red Stripe and Black with Blue Stripe

Data SEU



Type NM-B

Nonmetallic-Sheathed Cable. 600 Volt. Copper Conductors.
Color-Coded Jacket. Four Conductor Available With Two Neutrals.



Applications

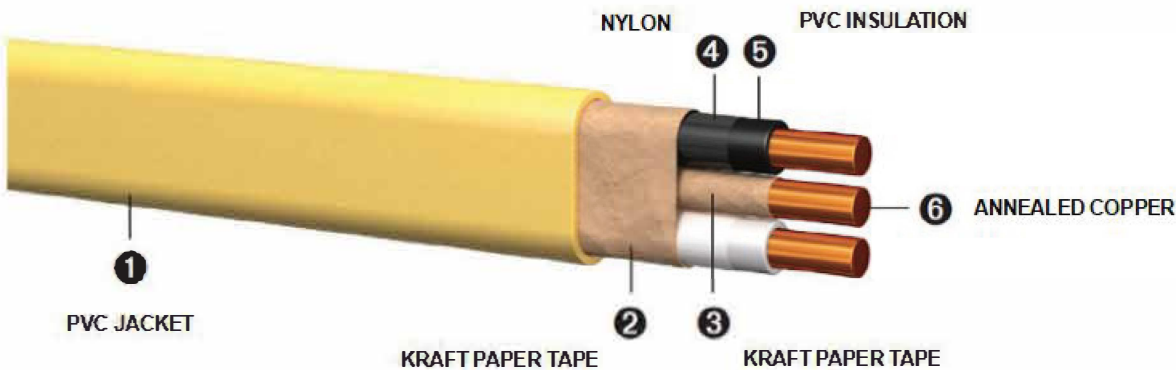
NM-B (nonmetallic-sheathed) cable may be used for both exposed and concealed work in normally dry locations at temperatures not to exceed 90°C (with ampacity limited to that for 60°C conductors) as specified in the National Electrical Code.
NM-B cable is primarily used in residential wiring as branch circuits for outlets, switches, and other loads. NM-B cable may be run in air voids of masonry block or tile walls where such walls are not wet or damp locations.
Voltage rating for NM-B cable is 600 volts.

Specification

Type NM-B cable complies with:
ASTM B-3 and B-8
UL Standard 83
UL Standard 719
Federal Specification A-A-59544
National Electrical Code, NFPA 70

Print sample

Construction



Data

CONDUCTOR			COLOR	INSULATION THICKNESS (MILS)	GROUND WIRE		CABLE DIMENSION (MILS)	NET WEIGHT	ALLOWABLE AMPACITY
SIZE (AWG)	CONDUCTOR NOS	STRAND NOS			SIZE (AWG)	STRAND NOS			
TWO CONDUCTORS									
14	2	1	WHITE	19	14	1	368*162	57	15
12	2	1	YELLOW	19	12	1	418*179	82	20
10	2	1	ORANGE	24	10	1	494*210	124	30
8	2	7	BALCK	35	10	1	618*272	186	40
6	2	7	BALCK	35	10	1	658*308	252	55
THREE CONDUCTORS									
14	3	1	BLUE	19	14	1	462*176	78	15
12	3	1	PURPLE	19	12	1	524*190	112	20
10	3	1	PINK	24	10	1	630*220	166	30
8	3	7	BALCK	35	10	1	572	255	40
6	3	7	BALCK	35	10	1	659	360	55
4	3	7	BALCK	46	8	1	825	565	70
2	3	7	BALCK	46	8	1	870	818	95
FOUR CONDUCTORS									
14	2/2	1	WHITE	19	14	1	336	91	15
12	4	1	WHITE	19	14	1	336	91	15
12	2/2	1	YELLOW	19	12	1	381	132	20
12	4	1	YELLOW	19	12	1	381	132	20
10	4	1	ORANGE	24	10	1	465	201	30

Notes:
1.Jacket thickness for all NM-B cable is 30 mils.
2.Color code for 2/2 conductor cable is Black, White, Red, and White with Red stripe.
3.Color code for 4 conductor cable is Black, White, Red, and Blue.



UF-B

Underground Feeder and Branch Circuit Cable. 600 Volt. Copper Conductors. Sunlight, Moisture, and Fungus Resistant Overall PVC Jacket.



Applications

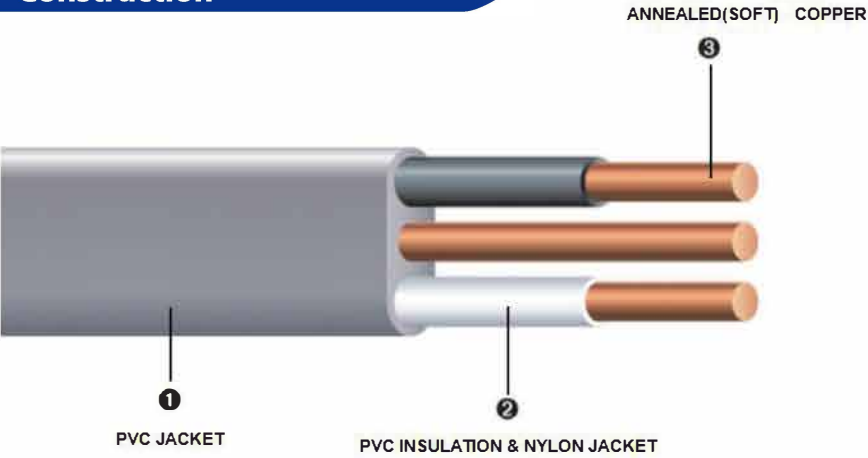
UF-B cable is generally used as feeder to outside post lamps,pumps, and other loads or apparatus fed from a distribution point in an existing building as specified in the 2011 National Electrical Code. UF-B cable may be used underground, including direct burial. Multiple conductor UF-B cable may be used for interior branch circuit wiring in residential or agricultural buildings at conductor temperatures not to exceed 90°C (with ampacity limited to that for 60°C conductors) as specified by the National Electrical Code. UF-B can be used in applications permitted for NMC in Section 334.10(B) of the National Electrical Code. Voltage rating for UF-B cable is 600 volts.

Specification

- ASTM - B3 and B-8
- UL Standard 83
- UL Standard 493
- Federal Specification A-A-59544
- National Electrical Code, NFPA 70.

Print sample

Construction



Data

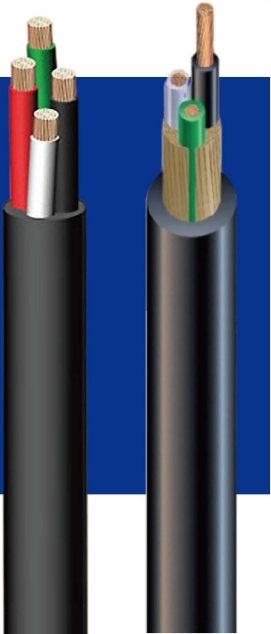
CONDUCTOR			JACKET THICKNESS (MILS)	GROUND WIRE		CABLE DIMENSION (MILS)	NET WEITHT /1000 (LBS)	ALLOWABLE AMPACITY
SIZE (AWG)	STRAND NOS	INSULATION & NYLON JACKET THICKNESS (MILS)		SIZE (AWG)	STRAND NOS			
TWO CONDUCTORS								
14	1	19	30	14	1	423*168	70	15
12	1	19	30	12	1	463*183	95	20
12	1	19	30	WITHOUT GROUND		386*183	70	20
10	1	24	30	10	1	518*215	138	30
8	7	35	45	10	1	678*302	222	40
6	7	35	45	10	1	770*338	303	55
THREE CONDUCTORS								
14	1	19	30	14	1	581*168	95	15
12	1	19	30	12	1	626*183	129	20
12	1	19	30	WITHOUT GROUND		581*183	107	20
10	1	24	30	10	1	727*215	191	30
8	7	35	45	10	1	1059*319	344	40
6	7	35	45	10	1	1223*361	478	55

UL

SOOW

Copper





600 Volt 90°C Flexible Cord. Heat, Moisture and Oil Resistant EPDM Rubber Insulation, Heat, Moisture and Oil Resistant Flexible CPE Jacket.

Applications

SOOW Flexible Cords UL/ CSA listed are permitted for use as specified by Article 400 and related articles of the 2014 National Electrical Code. The cable is rated -40°C to 90°C, water, oil, and weather resistant.

SOOW is for use with portable tools, equipment, appliances, small motors and associated machinery where flexibility and durability are required.

Specification

- UL 62
- CSA Standard 22.2 No. 49
- NEC 400
- NEC 501.140 Class I Division 2
- Passes CSA FT2 Flame Test
- MSHA
- Federal and Military Specification JC-580B
- RoHS-2 (European Directive 2011/65/EU)

Print sample

Construction



- 1. Conductors: Class K stranded bare copper per ASTM B-174
- 2. Insulation: EPDM
- 3. Jacket: Black CPE (Other colors available upon request)

Color Code Chart

NO.OF CONDUCTORS	COLOR
4	Black, White
5	Black, White, Green
2	Black, White, Red, Green
3	Black, White, Red, Green, Orange

Power Conductor	Conductor Size	Cond. Strands	Insul. Thickness		NOMINAL O.D.		APPROX. NET WT.
No.of Conductors	AWG/kcmil	No.	In	mm	In	mm	kg/km
2	18	16/30	0.030	0.76	0.345	8.76	114.5
2	16	26/30	0.030	0.76	0.370	9.40	127.6
2	14	41/30	0.045	1.14	0.510	12.95	231.5
2	12	65/30	0.045	1.14	0.570	14.48	308.8
2	10	104/30	0.045	1.14	0.620	15.75	388.1
3	18	16/30	0.030	0.76	0.365	9.27	124
3	16	26/30	0.030	0.76	0.390	9.91	148.6
3	14	41/30	0.045	1.14	0.535	13.59	268
3	12	65/30	0.045	1.14	0.595	15.11	360
3	10	104/30	0.045	1.14	0.660	16.76	460.4
3	8	133/29	0.060	1.52	0.840	21.33	552.8
3	6	133/27	0.060	1.52	0.980	24.89	775.9
3	4	133/25	0.060	1.52	1.140	28.96	1125.4
3	2	133/23	0.060	1.52	1.330	33.78	1677.4

Data

Power Conductor	Conductor Size	Cond. Strands	Insul. Thickness		NOMINAL O.D.		APPROX. NET WT.
No.of Conductors	AWG/kcmil	No.	In	mm	In	mm	kg/km
4	18	16/30	0.030	0.76	0.390	9.91	143.7
4	16	26/30	0.030	0.76	0.420	10.67	178.9
4	14	41/30	0.045	1.14	0.575	14.61	322.1
4	12	65/30	0.045	1.14	0.650	16.51	433.3
4	10	104/30	0.045	1.14	0.715	18.16	560.5
4	8	133/29	0.060	1.52	0.945	24.00	863.1
4	6	133/27	0.060	1.52	1.080	27.43	1235.2
4	4	133/25	0.060	1.52	1.260	32.00	1703.9
4	2	133/23	0.060	1.52	1.460	37.08	2528.4
5	8	133/29	0.060	1.52	1.030	26.16	1041.7
5	6	133/27	0.060	1.52	1.200	30.48	1510.5
5	4	133/25	0.060	1.52	1.365	34.67	2111.7
5	2	133/23	0.060	1.52	1.580	40.13	3074.5



300V, 105°C Flexible Cord. Heat, Moisture and Oil Resistant EPDM Rubber Insulation and Heat, Moisture and Oil Resistant Flexible CPE Jacket



Applications

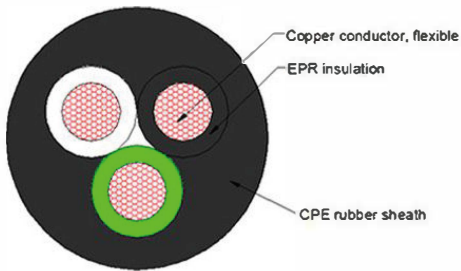
- The cable is rated -40°C to 105°C, water, oil, and weather resistant.
- Portable tools and equipment
 - Portable appliances
 - Small motors and associated machinery

Specification

- UL 62
- CSA Standard 22.2 No. 49
- NEC 400
- NEC 501.140 Class I Division 2
- Passes CSA FT2 Flame Test
- MSHA
- Federal and Military Specification JC-580B
- RoHS-2 (European Directive 2011/65/EU)

Print sample

Construction



- 1. Conductors: Class K stranded bare copper per ASTM B-174
- 2. Insulation: ERP
- 3. Jacket: Black chlorinated polyethylene CPE, which is oil, moisture and abrasion resistant

COLOR CODE CHART

NO.OF CONDUCTORS	COLOR
2	Black, White
3	Black, White, Green
4	Black, White, Red, Green
5	Black, White, Red, Green, Orange

Data

Power Conductor	Conductor Size	Cond. Strands	Insul. Thickness		NOMINAL O.D.		APPROX. NET WT.	
No.of Conductors	AWG/kcmil	No.	In	mm	In	mm	(Lbs/Mft)	kg/km
2	18	16/30	0.03	0.76	0.29	7.24	46	68
2	16	26/30	0.03	0.76	0.31	7.87	55	82
2	14	41/30	0.03	0.76	0.34	8.64	75	112
2	12	65/30	0.03	0.76	0.41	10.41	108	161
2	10	104/30	0.05	1.14	0.62	15.75	226	336
3	18	16/30	0.03	0.76	0.31	7.75	60	89
3	16	26/30	0.03	0.76	0.33	8.38	74	110
3	14	41/30	0.03	0.76	0.37	9.27	100	149
3	12	65/30	0.03	0.76	0.43	10.92	150	223
3	10	104/30	0.05	1.14	0.57	14.45	244	363
4	18	16/30	0.03	0.76	0.33	8.38	73	109
4	16	26/30	0.03	0.76	0.36	9.07	85	126
4	14	41/30	0.03	0.76	0.40	10.03	119	177
4	12	65/30	0.03	0.76	0.48	12.07	176	262
4	10	104/30	0.05	1.14	0.64	16.13	302	449



DLO

CABLE 2000V

UL Listed as 2kV Heavy Duty Flexible Power Cable (HDFPC) DLO, Rated 90°C Dry or Wet.



Data

Size	Strands	Diameter Over Conductor	Insulation Thickness	Jacket Thickness	O.D.	Weight
AWG/Kcmil	NOS	inch	mil	mil	inch	lbs/1000'
12	19	0.091	45	15	0.21	36
10	19	0.125	55	25	0.265	58
8	37	0.145	55	30	0.33	92
6	65	0.186	50	30	0.37	127
4	105	0.235	60	35	0.44	196
2	161	0.29	60	35	0.5	282
1	210	0.33	85	60	0.635	400
1/0	266	0.379	75	55	0.645	450
2/0	342	0.4	80	50	0.69	566
3/0	418	0.48	80	55	0.76	676
3/0	532	0.53	80	60	0.815	815
262.2	646	0.565	80	60	0.845	974
313.3	779	0.65	90	70	0.98	1139
373.7	931	0.701	95	70	1.04	1343
444.4	1121	0.782	90	65	1.105	1654
535.3	1330	0.843	105	75	1.212	1889
646.4	1628	0.89	115	80	1.29	2292
777.7	1924	0.966	120	90	1.405	2727
1111	2745	1.168	115	95	1.64	4161

Applications

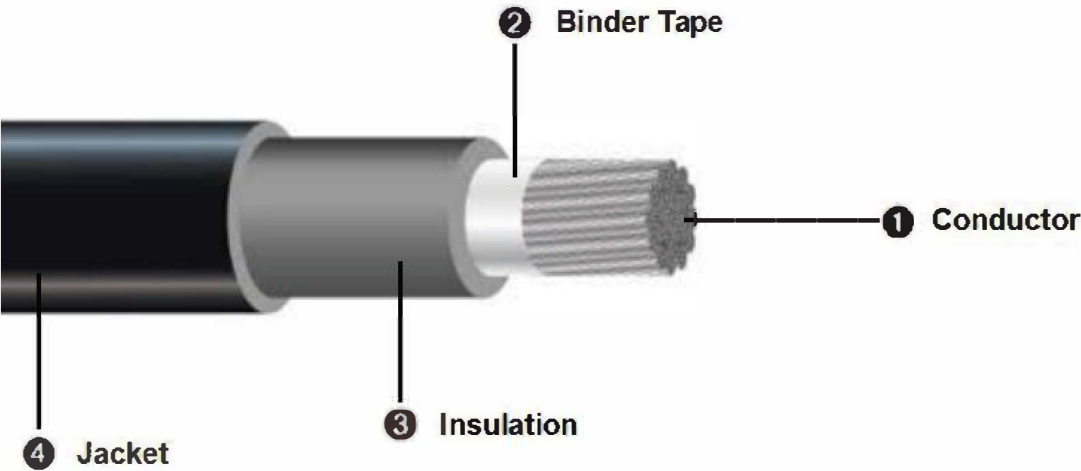
DLO is a 2kV flexible power cable with a variety of possible applications such as but not limited to: Drilling rigs, railroad and transit car wiring, mining and other industrial equipment, and as flexible motor leads and wind turbine applications. The cable is suited for use in wet and dry areas, conduits, ducts, troughs, trays, and where superior electrical properties are desired. DLO is oil, heat, flame, abrasion, and sunlight resistant.

Specification

ICEA S-95-658/ NEMA WC-70: Nonshielded Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
UL Standard 44: Thermoset Insulated Wires & Cables, Types RHH, RHW-2. UL VW-1
UL Standard 1685: Vertical Tray Fire propagation and Smoke Release Test for Electrical and optical Fiber Cables. (UL, ST-1)
ASTM B-33: Standard Specification for Tinned Soft or Annealed Copper Wire for Electrical Purposes
ASTM B-172: Standard Specification for Rope-Lay-Stranded Copper

Print sample

Construction



UL

H01N2-D

Welding Cable



Applications

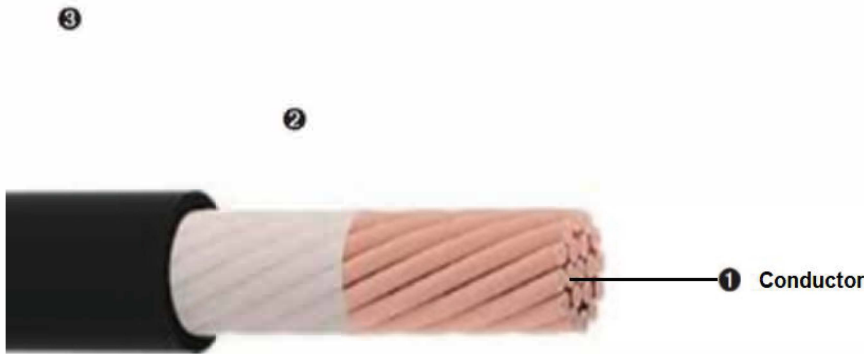
Industry, and especially the steel construction, consumes steel in various forms: metal sheets, tubes and so on. Consequently the trade of welding is dominating in this activity.

Specification

EN 50525-2-81
HD 22.6
IEC 60245

Print sample

Construction



Data

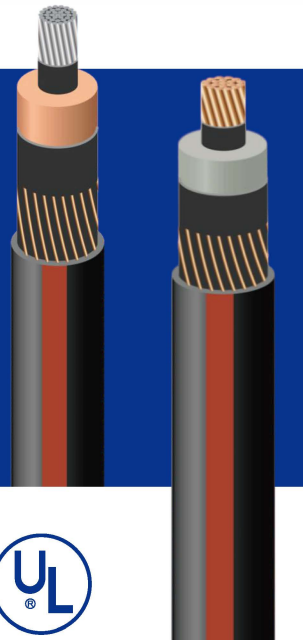
Size	Insulation Thickness	O.D.	Weight
mm ²	mm	mm	kg/km
10	2	9	146
16	2	10	204
25	2	11.5	290
35	2	12.5	384
50	2.2	14.5	535
70	2.4	16.5	716
95	2.6	18.5	943
120	2.8	20.5	1235
150	3	23	1556

UL

MV-90 MV-105

5-46KV URD CABLE ALUMINUM & COPPER

Underground Residential Distribution Cable,
TR-XLPE Insulation, Neutral Concentric wire,
LLDPE Jacket, Single Conductor.



Applications

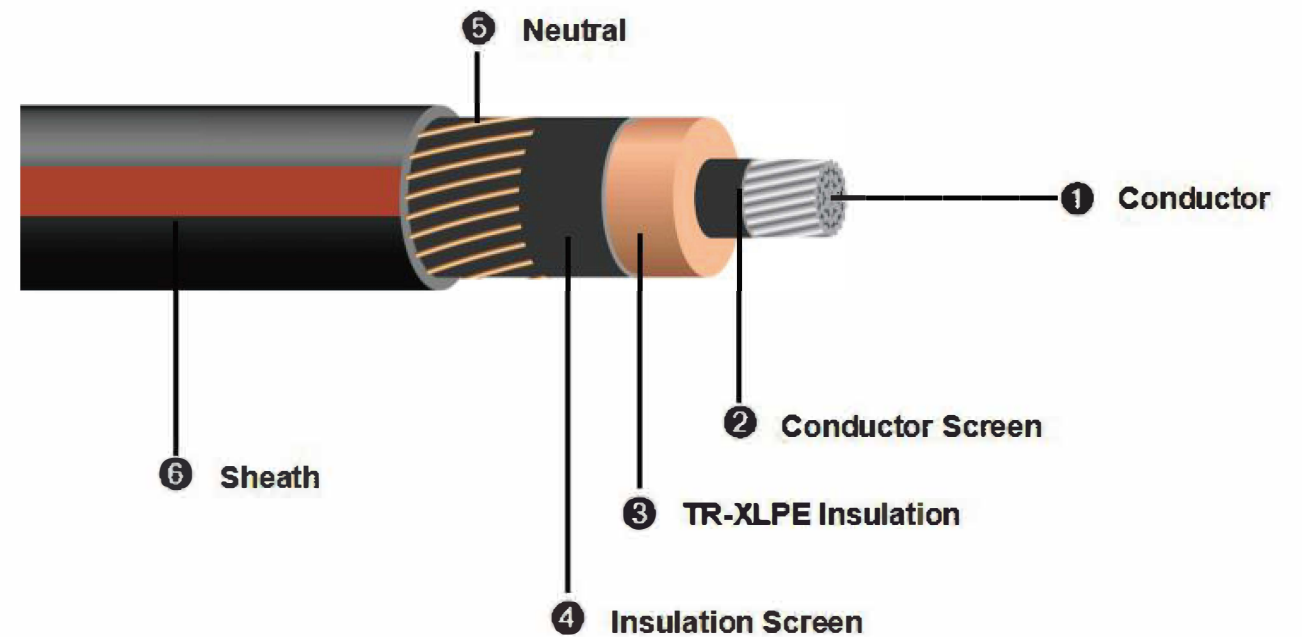
Predominantly used for primary underground distribution in conduit systems suitable for use in wet or dry locations, direct burial, underground duct, and where exposed to sunlight. To be used at 35,000 volts or less and at conductor temperatures not to exceed 90°C(MV-90) or 150°C(MV-105) for normal operation.

Specification

UL1072 Medium-Voltage Power Cables
ICEA S-94-649 Concentric Neutral Cables Rated 5-46kv
AIEC CS8 Specification for Extruded Dielectric, Shielded Power Cables Rated 5 through 46 kv.
CSA C68.5 - Primary shielded and concentric neutral cable for distribution utilities.

Print sample

Construction



Optional

Voltage: 5kv, 8kv, 15kv, 25kv, 28kv, 35kv, 46kv
Insulation Level: 100% 133% 173%
Conductor: Copper, Aluminum, Aluminum Alloy 8000 Series
Insulation material: EPR(UL)
Copper Concentric Copper Neutral: Full Neutral, 1/3 Neutral, 1/6 Neutral, 1/8 Neutral, 1/12 Neutral
Screen: Copper Tape Shield
Jacket: XLPE(UL) or PVC

Data example

URD Power Cable-AL TR-XLPE 15KV 100% 1/3 Concentric Neutral XLPE Range and Dimension

Size				Strands Nos	Strands Diameter	Jacket Thickness	Jacket Diameter	Net Weight
AWG/Kcmil	mm	Insulation Thickness mm	Diameter Over Insulation mm		mm	mm	mm	kg/km
2	7	4.45	17	6	1.29	1.4	24.2	602
1/0	9	4.45	18.9	6	1.63	1.4	26.8	782.2
2/0	10.1	4.45	20	11	1.29	1.4	27.2	839.8
3/0	11.4	4.45	21.3	14	1.29	1.4	28.5	956.9
4/0	12.8	4.45	22.7	11	1.63	1.4	30.6	1127.1
250	13.9	4.45	23.8	13	1.63	1.4	31.7	1256
350	16.5	4.45	26.4	18	1.63	1.4	34.8	1591.2
500	19.6	4.45	29.5	16	2.05	1.4	38.8	2069.3
750	24.1	4.45	34.4	15	2.59	2.03	46	2994.6
1000	27.8	4.45	38.1	20	2.59	2.03	49.7	3699.1
1250	31.2	5.59	43.9	20	2.91	2.03	56.9	4748.8
1500	34.1	5.59	47.3	24	2.91	2.03	60.2	5489.6

URD Power Cable-AL TR-XLPE 15KV 100% 1/3 Concentric Neutral XLPE Range and Dimension

Size				Strands Nos	Strands Diameter	Jacket Thickness	Jacket Diameter	Net Weight
AWG/Kcmil	mm	Insulation Thickness mm	Diameter Over Insulation mm		mm	mm	mm	kg/km
2	7	4.45	17	6	1.29	1.4	26.5	692.1
1/0	9	4.45	18.9	6	1.63	1.4	29.1	881.4
2/0	10.1	4.45	20	11	1.29	1.4	29.5	940.3
3/0	11.4	4.45	21.3	14	1.29	1.4	30.8	1061.8
4/0	12.8	4.45	22.7	11	1.63	1.4	32.9	1239.2
250	13.9	4.45	23.8	13	1.63	1.4	34.5	1405
350	16.5	4.45	26.4	18	1.63	1.4	37.1	1718.2
500	19.6	4.45	29.5	16	2.05	1.4	41	2209.8
750	24.1	4.45	34.4	15	2.59	2.03	48.2	3160
1000	27.8	4.45	38.1	20	2.59	2.03	52.7	3953.9
1250	31.2	5.59	43.9	20	2.91	2.03	56.9	4748.8
1500	34.1	5.59	47.3	24	2.91	2.03	60.2	5489.6

mining cable

- Type W
- Type G
- G-GC | SHD-GC

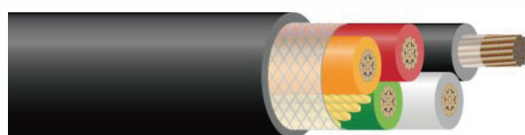
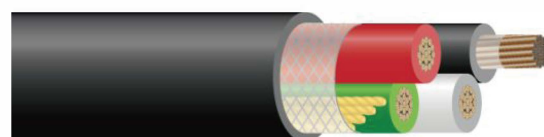
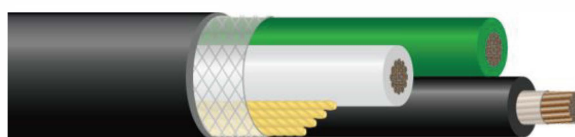
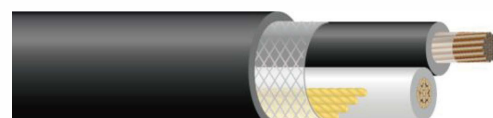
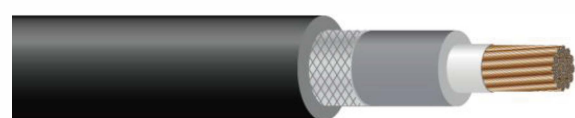
Solar cable



TYPE W

COPPER

Flexible Copper Conductors, Ethylene Propylene Diene Monomer (EPDM) Insulation, Single Layer Chlorinated Polyethylene (CPE) Jacket.
Type RHH/RHW-2 90°C Wet and Dry



Specification

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- UL 1650 Standard for Portable Power Cable
- MSHA Approved
- RoHS-2 (European Directive 2011/65/EU)

Print sample

Construction



1. Conductor: Bare, soft drawn, annealed, flexible, rope-lay stranded copper per ASTM B3/B172
2. Separator Tape: Non-conducting tape applied between the conductor and insulation to facilitate stripping
3. Insulation: Ethylene Propylene Diene Monomer (EPDM). Color coded black, white, red, green, orange
4. Fillers: Jute fillers applied as needed to round the cable core
5. Reinforcement Binder: Reinforcing binder with twine applied over the core
6. Jacket: Black, flame resistant, thermosetting Chlorinated Polyethylene (CPE)

Applications

Suitable for continuous submersion in water – ideal for submersible pumps. Also suitable for use in light to medium-duty mining applications. Sunlight and oil resistant. Highly flexible and easy to work with in cold conditions. Not for use as permanent building wiring. Meets FT-5 Flame Test.



Flexible Copper conductors, Ethylene Propylene Diene Monomer (EPDM) insulation, Single Layer Chlorinated Polyethylene (CPE) Jacket

Applications

Type G cable is a heavy-duty industrial cable for use in flexible, portable, and extra-hard usage applications where equipment grounding is required per NEC Article 400. Suitable for continuous submersion in water – ideal for submersible pumps, marine application. Also suitable for use in light to medium-duty mining applications. Sunlight and oil resistant. Highly flexible and easy to work with in cold conditions. Not for use as permanent building wiring.

Applications

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- UL 1650 Standard for Portable Power Cable
- MSHA Approved
- RoHS-2 (European Directive 2011/65/EU)

Print sample

Construction



1. Conductor: Bare, soft drawn, annealed, flexible, rope-lay stranded copper per ASTM B3/B172
2. Separator Tape: Non-conducting tape applied between the conductor and insulation to facilitate stripping
3. Insulation: Ethylene Propylene Diene Monomer (EPDM). Color coded black, white, blue, red for sizes #4/0 and smaller and black, white, red, orange for sizes over 250 kcmil
4. Ground Conductors: Four insulated, bare, soft drawn, annealed, rope stranded, flexible lay copper per ASTM B3/B172
5. Fillers: Jute fillers applied as needed to round the cable core
6. Reinforcement Binder: Reinforcing binder with twine applied over the core
7. Jacket: Black, flame resistant, thermosetting Chlorinated Polyethylene (CPE)

Data

Power Conductor	Conductor Size	Cond. Strands	Diameter Over Conductor		Insul. Thickness	Ground	Jacket Thickness	Approx.OD		Approx.Weight	
			In	mm				In	mm	lb/1000ft	kg/km
4	8	71	0.145	3.68	1.52	4x12	3.68	0.985	25.02	629	936.06
4	6	65	0.186	4.72	1.52	4x12	3.68	1.130	28.70	865	1287.26
4	4	112	0.235	5.97	1.52	4x10	4.45	1.222	31.04	1121	1668.23
4	2	168	0.290	7.37	1.52	4x9	5.21	1.479	37.57	1882	2800.72
4	1	224	0.300	7.62	2.03	4x8	3.68	1.591	40.41	2063	3070.08
4	1/0	259	0.379	9.63	2.03	4x7	3.94	1.755	44.58	2452	3648.98
4	2/0	324	0.400	10.16	2.03	4x6	3.94	1.930	49.02	3057	4549.32
4	3/0	418	0.480	12.19	2.03	4x5	3.94	2.048	52.02	3679	5474.96
4	4/0	532	0.530	13.46	2.03	4x4	3.94	2.175	55.25	4392	6536.02
4	250	608	0.605	15.37	2.41	4x3	6.86	2.527	64.19	5609	8347.11
4	350	893	0.670	17.02	2.41	4x2	6.86	2.972	75.49	8110	12069.01
4	500	1221	0.858	21.79	2.41	4x1/0	8.26	3.230	82.04	10201	15180.76

Data

Power Conductor	Conductor Size	Cond. Strands	Diameter Over Conductor		Insul. Thickness	Jacket Thickness	Approx. OD		Approx. Weight	
No. of Conductors	AWG/kcmil	No.	In	mm	mm	mm	In	mm	lb/1000ft	kg/km
1	8	168	0.145	3.68	1.52	1.91	0.433	11.00	132	196.44
1	6	273	0.186	4.72	1.52	2.41	0.522	13.26	191	284.24
1	4	427	0.235	5.97	1.52	2.41	0.572	14.53	255	379.48
1	2	651	0.290	7.37	1.52	2.41	0.606	15.39	299	444.96
1	2	259	0.290	7.37	1.52	2.41	0.666	16.92	352	523.83
1	1	259	0.300	7.62	2.03	2.41	0.714	18.14	432	642.89
1	1/0	259	0.379	9.63	2.03	2.41	0.759	19.28	514	764.92
1	2/0	324	0.400	10.16	2.03	2.41	0.820	20.83	614	913.73
1	3/0	418	0.480	12.19	2.03	2.54	0.854	21.69	749	1114.63
1	4/0	532	0.530	13.46	2.03	2.41	0.901	22.89	894	1330.42
1	250	608	0.605	15.37	2.41	2.41	1.011	25.68	1059	1575.97
1	350	893	0.670	17.02	2.41	2.41	1.110	28.19	1411	2099.80
1	500	1221	0.858	21.79	2.41	2.41	1.254	31.85	1898	2824.54
1	500	1221	0.858	21.79	2.41	2.41	1.284	32.61	1935	2879.60
2	8	71	0.145	3.68	1.52	2.92	0.801	20.35	330	491.09
2	6	65	0.186	4.72	1.52	2.79	0.852	21.64	403	599.73
2	4	112	0.235	5.97	1.52	2.79	1.020	25.91	611	909.27
2	2	168	0.290	7.37	1.52	3.68	1.130	28.70	744	1107.19
2	1	224	0.300	7.62	2.03	3.94	1.250	31.75	925	1376.55
2	1/0	259	0.385	9.78	2.03	3.94	1.511	38.38	1203	1790.26
2	2/0	324	0.400	10.16	2.03	3.94	1.497	38.02	1382	2056.64
2	3/0	418	0.480	12.19	2.03	3.94	1.610	40.89	1764	2625.12
0.00										
3	8	71	0.145	3.68	1.52	3.68	0.963	24.46	477	709.85
3	6	65	0.186	4.72	1.52	3.68	1.030	26.16	609	906.29
3	4	112	0.235	5.97	1.52	3.18	1.170	29.72	881	1311.07
3	2	168	0.290	7.37	1.52	3.68	1.292	32.82	1151	1712.88
3	1	224	0.300	7.62	2.03	3.68	1.304	33.12	1173	1745.62
3	1/0	259	0.379	9.63	2.03	4.06	1.505	38.23	1671	2486.72
3	2/0	324	0.400	10.16	2.03	3.94	1.691	42.95	2098	3122.17

Power Conductor	Conductor Size	Cond. Strands	Diameter Over Conductor		Insul. Thickness	Jacket Thickness	Approx. OD		Approx. Weight	
No. of Conductors	AWG/kcmil	No.	In	mm	mm	mm	In	mm	lb/1000ft	kg/km
3	3/0	418	0.480	12.19	2.03	4.06	1.713	43.51	2406	3580.52
3	4/0	532	0.530	13.46	2.03	4.45	1.913	48.59	2904	4321.63
3	250	608	0.605	15.37	2.41	3.94	2.048	52.02	3382	5032.97
3	350	893	0.670	17.02	2.41	6.22	2.685	68.20	5679	8451.28
3	500	1221	0.858	21.79	2.41	6.22	2.800	71.12	6568	9774.26
3	500	1221	0.858	21.79	2.41	6.86	2.861	72.67	6897	10263.87
4	8	71	0.145	3.68	1.52	3.94	0.988	25.10	577	858.67
4	8	133	0.145	3.68	1.52	3.94	1.011	25.68	573	852.72
4	6	65	0.186	4.72	1.52	3.68	1.120	28.45	748	1113.15
4	4	427	0.235	5.97	1.52	3.68	1.171	29.74	952	1416.73
4	4	112	0.235	5.97	1.52	3.18	1.223	31.06	1054	1568.52
4	2	168	0.290	7.37	1.52	3.68	1.465	37.21	1766	2628.10
4	1	224	0.300	7.62	2.03	3.68	1.654	42.01	1985	2954.01
4	1/0	259	0.379	9.63	2.03	4.19	1.729	43.92	2249	3346.88
4	2/0	324	0.400	10.16	2.03	5.72	1.874	47.60	2764	4113.29
4	3/0	418	0.480	12.19	2.03	3.94	1.890	48.01	3226	4800.82
4	4/0	532	0.530	13.46	2.03	5.97	2.199	55.85	3979	5921.40
4	250	608	0.605	15.37	2.41	6.86	2.486	63.14	4705	7001.81
4	350	893	0.670	17.02	2.41	7.21	2.968	75.39	7114	10586.80
4	500	1221	0.858	21.79	2.41	7.87	3.178	80.72	8464	12595.82
5	8	71	0.145	3.68	1.52	3.94	1.056	26.82	665	989.63
5	6	65	0.186	4.72	1.52	3.56	1.210	30.73	881	1311.07
5	4	112	0.235	5.97	1.52	3.94	1.399	35.53	1347	2004.56
5	2	168	0.290	7.37	1.52	4.32	1.605	40.77	1990	2961.45
5	1	224	0.300	7.62	2.03	5.21	1.676	42.57	1907	2837.93
5	1/0	259	0.379	9.63	2.03	6.60	2.041	51.84	3075	4576.10
5	2/0	324	0.400	10.16	2.03	5.21	2.072	52.63	3336	4964.51
5	3/0	418	0.480	12.19	2.03	5.21	2.153	54.69	3893	5793.42
5	4/0	532	0.530	13.46	2.03	5.59	2.394	60.81	5313	7906.62

UL

Type G-GC

2000v | Msha | Copper



Flexible Copper conductors, Ethylene Propylene Diene Monomer (EPDM) insulation, Single Layer Chlorinated Polyethylene (CPE) Jacket



Applications

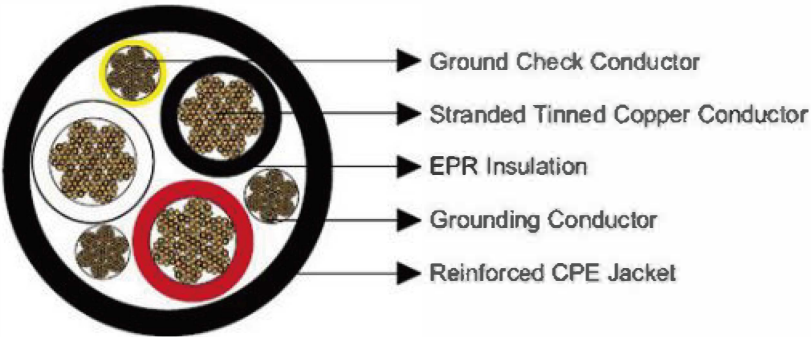
Type G-GC cable is a heavy-duty industrial cable for use in flexible, portable, and extra-hard usage applications where equipment grounding is required per NEC Article 400. Suitable for continuous submersion in water – ideal for submersible pumps, marine application. Also suitable for use in light to medium-duty mining applications. Sunlight and oil resistant. Highly flexible and easy to work with in cold conditions. Not for use as permanent building wiring.

Specification

MSHA listed
ICEA Standard S-75-381/NEMA WC-58, ASTM B-172 and B-33
CSA C22.2, No.96 Portable Power Cables

Print sample

Construction



Data

Power conductor	Number of strands	Bonding Conductor	Check wire	Insulation Thickness	Cable O.D.	Weight
size	Nos.	size	size	mm	mm	kg/km
3*6	133	2*10	1*10	1.52	26.6	1095
3*4	259	2*8	1*10	1.52	30.2	1585
3*3	259	2*8	1*10	1.52	31.5	1855
3*2	259	2*7	1*10	1.52	34	2200
3*1	259	2*6	1*8	2.03	38.3	2805
3*1/0	266	2*5	1*8	2.03	41.9	3410
3*2/0	342	2*4	1*8	2.03	44.4	4035
3*3/0	418	2*3	1*8	2.03	48	4865
3*4/0	532	2*2	1*8	2.03	51.8	5915
3*250	627	2*2	1*6	2.41	60.7	7365
3*350	888	2*1/0	1*6	2.41	68	9860
3*500	1221	2*2/0	1*6	2.41	76.9	13230

UL

SHD-GC

2/5/8/15/25kv
MSHA

Flexible Copper conductors, EPR 100% Insulation Level, Cu/Nylon Braid Shield, Extra Heavy Duty Two Layer Chlorinated Polyethylene (CPE) Jacket



Applications

Type SHD-GC is a heavy-duty trailing cable where flexibility and maximum protection is required. For use with mobile, reeling, or stationary mining equipment, continuous mining machines, longwall mining systems, and blast hole drillers. It is also an excellent choice for shovels, draglines, dredges, cranes and marine shore-to-ship power supplies, and anytime extra-durable, flexible cable is required. Suitable for continuous submersion in water. Ground check conductor provides fail-safe ground monitoring. Embossed print legend for easy cable identification. Cold Bend and Impact Tested to -50°C.

Specification

ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
CSA C22.2 No. 96 Portable Power Cables
ICEA S-75-381 Portable and Power Feeder Cables for Use in Mines

Print sample

Construction



Data 2000V

Power Conductor		Number of strands	Insulation thickness	Bonding Conductor	Check Wire	Jacket Thickness	Cable O.D.	Weight
Conductor Count	size	Nos.	mm	size	size	mm	mm	kg/km
3	6	133	1.8	10	10	3.9	32.8	1682
3	4	259	1.8	8	10	3.9	35.6	2173
3	3	259	1.8	7	10	4.3	38.3	2500
3	2	259	1.8	6	8	4.3	40.4	2961
3	1	259	2	5	8	4.8	44.7	3549
3	1/0	259	2	4	8	4.8	47.2	4115
3	2/0	329	2	3	8	5.2	50.8	4844
3	3/0	413	2	2	8	5.2	54.1	5789
3	4/0	532	2	1	8	5.6	58.7	7024
3	250	608	2.4	1/0	6	5.6	63.8	8125
3	300	741	2.4	1/0	6	6	68.1	9517
3	350	851	2.4	2/0	6	6.4	71.4	10834
3	500	1221	2.4	4/0	6	6.7	81	14614

Data 5000V

Power Conductor		Number of strands	Insulation thickness	Bonding Conductor	Check Wire	Jacket Thickness	Cable O.D.	Weight
Conductor Count	size	Nos.	mm	size	size	mm	mm	kg/km
3	6	133	2.8	10	8	4.7	39.6	2322
3	4	259	2.8	8	8	4.7	42.7	2820
3	2	259	2.8	6	8	5.2	47.9	3639
3	1	259	2.8	5	8	5.2	49.5	4167
3	1/0	259	2.8	4	8	5.6	52.8	4807
3	2/0	329	2.8	3	8	5.6	55.9	5655
3	3/0	413	2.8	2	8	6	59.9	6660
3	4/0	532	2.8	1	8	6	63.5	7835
3	250	608	2.8	1/0	6	6.4	68.3	9085
3	300	741	3	1/0	6	6.4	71.4	10231
3	350	851	3	2/0	6	6.7	74.9	11600
3	500	1221	3	4/0	6	7.1	84.1	15499

Data 8000V

Power Conductor		Number of strands	Insulation thickness	Bonding Conductor	Check Wire	Jacket Thickness	Cable O.D.	Weight
Conductor Count	size	Nos.	mm	size	size	mm	mm	kg/km
3	4	259	3.8	8	8	5.2	49.3	3594
3	2	259	3.8	6	8	5.6	53.8	4554
3	1	259	3.8	5	8	5.6	56.1	5104
3	1/0	259	3.8	4	8	5.6	58.9	5700
3	2/0	329	3.8	3	8	6	62.5	6593
3	3/0	413	3.8	2	8	6.4	66.5	7738
3	4/0	532	3.8	1	8	6.4	69.8	8713
3	250	608	3.8	1/0	6	6.4	73.4	9948
3	300	741	3.8	1/0	6	6.1	77.2	11384
3	350	851	3.8	2/0	6	7.1	81.3	12739
3	500	1221	3.8	4/0	6	7.5	90.4	16757

Data 15000V

Power Conductor		Number of strands	Insulation thickness	Bonding Conductor	Check Wire	Jacket Thickness	Cable O.D.	Weight
Conductor Count	size	Nos.	mm	size	size	mm	mm	kg/km
3	2	259	5.3	6	8	6	61.2	5529
3	1	259	5.3	5	8	6	64	6042
3	1/0	259	5.3	4	8	6.4	67	6927
3	2/0	329	5.3	3	8	6.4	69.3	7783
3	3/0	413	5.3	2	8	6.7	73.7	8922
3	4/0	532	5.3	1	8	6.7	77.5	10209
3	250	608	5.3	1/0	6	6.7	78.74	11149
3	350	851	5.3	2/0	6	7.1	85.98	13194
3	500	1221	5.3	4/0	6	7.1	92.71	17463

Data 25000V

Power Conductor		Number of strands	Insulation thickness	Bonding Conductor	Check Wire	Jacket Thickness	Cable O.D.	Weight
Conductor Count	size	Nos.	mm	size	size	mm	mm	kg/km
3	1	259	6.6	5	8	6.7	74.93	7872
3	1/0	259	6.6	4	8	6.7	77.47	8631
3	2/0	329	6.6	3	8	7.1	81.28	9695
3	3/0	413	6.6	2	8	7.1	84.58	10737
3	4/0	532	6.6	1	8	7.5	88.9	12277
3	250	608	6.6	1/0	6	7.5	89.92	13491
3	350	851	6.6	2/0	6	7.5	96.37	15057

Solar cable

RPV | RPVU

PV Cable ul4703

H1Z2Z2-K

MOBILE HOME FEEDER

RW90

RHH RHW USE-2

Solar cable

RPVU

Copper



Photovoltaic Cable, 1000V or 2000V;XLPE Insulation,Single Conductor,Copper

Applications

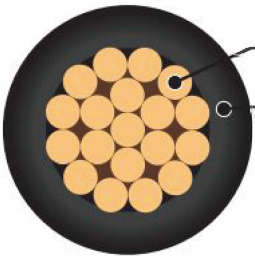
- For exposed wiring and raceways for interconnection of solar photovoltaic systems. See CEC Part I Section 64-210.
- For exposed wiring and raceways (except cable tray) in wet and dry locations.
- For direct earth burial (with protection as required by inspection).
- Minimum recommended installation temperature of minus40°C with proper handling procedures.
- Cables marked SUN RES are also for outdoor use and exposed wiring subjected to the weather.

Specification

- CSA C22.2 No. 38, Thermoset-insulated wires and cables (Type RPVU90)
- CSA C22.2 No. 271, Photovoltaic Cables
- -40°C Cold Bend and -40°C Cold Impact
- Sunlight Resistant SUN RES

Print sample

Construction



COPPER CONDUCTOR

XLPE INSULATION

- 1. Conductor □ Stranded Bare Soft Copper conductors, ASTM B3
- 2. Insulation : Cross-linked Polyethylene Insulation (XLPE)
CSA Type XL 90°C dry/wet

Solar cable

UL4703

Solar PV Cable

600/1000/2000 V

Aluminum & Copper



PV wire is rated 600, 1000 or 2000 V, and is suitable for ac and dc systems. This wire is rated 90°C, 105°C, 125°C or 150°C dry and 90°C wet. PV wire employs 12 AWG - 2000 kcmil stranded aluminum or copper-clad aluminum, or 18 AWG - 2000 kcmil stranded copper, tinned copper conductors.

Applications

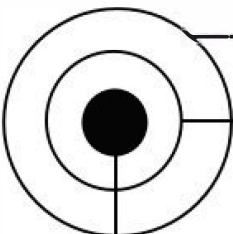
This versatile single-conductor cable is designed to meet the varying needs of the Solar Industry. Applications include connection to module junction boxes; required cable routing in balance of system (BOS) integration.

Specification

PV (Photovoltaic) with UL certificate standard
UL 4703 for TYPE PV
UL 44 for TYPE RHW-2
UL 854 for TYPE USE-2

Print sample

Construction



① XLPE Jacket

② XLPE Insulation

③ Copper or Aluminum

Data

Voltage	Conductor				Insul. Thickness		NOMINAL O.D.		Nominal Weight	
	AWG/kcmil	Strands No.	Diameter (inches)	Diameter (mm)	In	mm	In	mm	lbs/1000ft	kg/km
1000/2000	14	19or7	0.0276	1.84	0.060	1.524	0.194	4.928	24	36
1000/2000	12	19or7	0.0915	2.32	0.060	1.524	0.213	5.410	33	49
1000/2000	10	19or7	0.1160	2.95	0.060	1.524	0.235	5.969	47	70
1000/2000	8	19or7	0.1460	3.71	0.080	2.032	0.305	7.747	76	113

Data Aluminum AA-8000 1000/2000v

Size	Diameter of Conductor	Strands	Insulation Thickness	O.D.	Net Weight
AWG or Kcmil	mm	Nos	mm	mm	kg/km
12	2.16	7	1.9	6	46
10	2.72	7	1.9	6.5	56
8	3.4	7	2.15	7.7	80
6	4.29	7	2.15	8.6	102
4	5.41	7	2.15	9.7	135
3	6.02	7	2.15	10.3	156
2	6.81	7	2.15	11.1	183
1	7.59	18	2.66	12.9	244
1/0	8.53	18	2.66	13.9	286
2/0	9.55	18	2.66	14.9	337
3/0	10.74	18	2.66	16.1	400
4/0	12.07	18	2.66	17.4	477
250	13.21	35	3.04	19.3	579
300	14.48	35	3.04	20.6	665
350	15.65	35	3.04	21.7	750
400	16.74	35	3.04	22.8	836
450	17.78	35	3.04	23.9	914
500	18.69	35	3.04	24.8	1028
550	19.69	58	3.43	26.6	1133
600	20.65	58	3.43	27.5	1217
650	21.46	58	3.43	28.3	1298
700	22.28	58	3.43	29.1	1382
750	23.06	58	3.43	29.9	1463
800	23.83	58	3.43	30.7	1543
900	25.37	58	3.43	32.2	1707
1000	26.92	58	3.43	33.8	1871

Data Aluminum AA-8000 600V

Size	Diameter of Conductor	Strands	Insulation Thickness	O.D.	Net Weight
AWG or Kcmil	mm	Nos	mm	mm	kg/km
12	2.16	7	1.52	5.2	36
10	2.72	7	1.52	5.76	45
8	3.4	7	1.9	7.2	71
6	4.29	7	1.9	8.09	92
4	5.41	7	1.9	9.21	124
3	6.02	7	1.9	9.82	145
2	6.81	7	1.9	10.61	170
1	7.59	18	2.41	12.41	230
1/0	8.53	18	2.41	13.35	271
2/0	9.55	18	2.41	14.37	320
3/0	10.74	18	2.41	15.56	382
4/0	12.07	18	2.41	16.89	457
250	13.21	35	2.79	18.79	557
300	14.48	35	2.79	20.06	642
350	15.65	35	2.79	21.23	725
400	16.74	35	2.79	22.32	810
450	17.78	35	2.79	23.36	887
500	18.69	35	2.79	24.27	999
550	19.69	58	3.18	26.05	1103
600	20.65	58	3.18	27.01	1185
650	21.46	58	3.18	27.82	1265
700	22.28	58	3.18	28.64	1348
750	23.06	58	3.18	29.42	1428
800	23.83	58	3.18	30.19	1508
900	25.37	58	3.18	31.73	1670
1000	26.92	58	3.18	33.28	1832

Data Copper 1000/2000v

Size	Diameter of Conductor	Strands	Insulation Thickness	O.D.	Net Weight
AWG or Kcmil	mm	Nos	mm	mm	kg/km
12	2.16	7	1.9	6	66
10	2.72	7	1.9	6.5	88
8	3.4	7	2.15	7.7	130
6	4.29	7	2.15	8.6	183
4	5.41	7	2.15	9.7	265
3	6.02	7	2.15	10.3	321
2	6.81	7	2.15	11.1	391
1	7.59	18	2.66	12.9	506
1/0	8.53	18	2.66	13.9	617
2/0	9.55	18	2.66	14.9	754
3/0	10.74	18	2.66	16.1	927
4/0	12.07	18	2.66	17.4	1140
250	13.21	35	3.04	19.3	1366
300	14.48	35	3.04	20.6	1608
350	15.65	35	3.04	21.7	1849
400	16.74	35	3.04	22.8	2097
450	17.78	35	3.04	23.9	2318
500	18.69	35	3.04	24.8	2663
550	19.69	58	3.43	26.6	2867
600	20.65	58	3.43	27.5	3106
650	21.46	58	3.43	28.3	3343
700	22.28	58	3.43	29.1	3589
750	23.06	58	3.43	29.9	3826
800	23.83	58	3.43	30.7	4063
900	25.37	58	3.43	32.2	4545
1000	26.92	58	3.43	33.8	5027

Data Copper 600V

Size	Diameter of Conductor	Strands	Insulation Thickness	O.D.	Net Weight
AWG or Kcmil	mm	Nos	mm	mm	kg/km
12	2.16	7	1.52	5.2	61
10	2.72	7	1.52	5.76	95
8	3.4	7	1.9	7.2	131
6	4.29	7	1.9	8.09	186
4	5.41	7	1.9	9.21	262
3	6.02	7	1.9	9.82	319
2	6.81	7	1.9	10.61	416
1	7.59	18	2.41	12.41	506
1/0	8.53	18	2.41	13.35	617
2/0	9.55	18	2.41	14.37	756
3/0	10.74	18	2.41	15.56	929
4/0	12.07	18	2.41	16.89	1172
250	13.21	35	2.79	18.79	1369
300	14.48	35	2.79	20.06	1609
350	15.65	35	2.79	21.23	1848
400	16.74	35	2.79	22.32	2095
450	17.78	35	2.79	23.36	2314
500	18.69	35	2.79	24.27	2706
550	19.69	58	3.18	26.05	2864
600	20.65	58	3.18	27.01	3101
650	21.46	58	3.18	27.82	3338
700	22.28	58	3.18	28.64	3583
750	23.06	58	3.18	29.42	3819
800	23.83	58	3.18	30.19	4067
900	25.37	58	3.18	31.73	4548
1000	26.92	58	3.18	33.28	4557

Solar cable

H1Z2ZZ2-K

Solar Cable



Applications

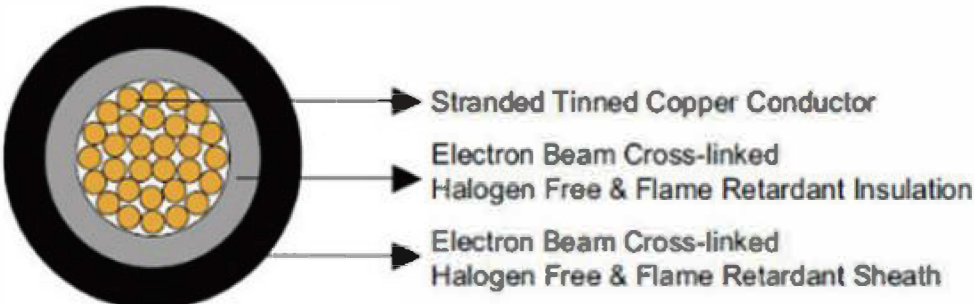
Updated harmonised (H1Z2ZZ2-K) European standard solar cable intended for the interconnection within photovoltaic systems such as solar panel arrays. Suitable for fixed installations, internal and external, within conduit or systems.
Impact tested - Suitable for direct burial. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment. Water resistant to Ad8.

Specification

EN 50618, TÜV 2 PfG 1169/08.2007, EN 50288-3-7, EN 60068-2-78, EN 50395
Flame retardant to IEC/EN 60332-1-2
Low Smoke Zero Halogen to IEC/EN 60754-1/2, IEC/EN 61034-1/2, EN 50267-2-2
Ozone and UV Resistant to EN 60811-403, EN 50396, EN ISO 4892-1/3,
Water Resistant to Ad8

Print sample

Construction



Data

SIZE	Stranding Nos	Conductor Diameter	Insulation Thickness	Sheath Thickness	O.D.	Net Weight
Nos*mm²		mm	mm	mm	mm	kg/km
1*1.5	30/0.25	1.58	1.14	0.82	5.4	52
1*2.5	50/0.25	2.04	1.14	0.82	5.8	67
1*4.0	56/0.3	2.59	1.14	0.82	6.4	87
1*6.0	84/0.3	3.17	1.14	0.82	7.0	113
1*10	78/0.4	4.07	1.52	0.82	8.6	178
1*16	128/0.4	5.22	1.52	0.82	9.8	254
1*25	199/0.4	6.51	1.52	0.82	11.1	363
1*35	279/0.4	7.71	1.52	0.82	12.3	473

Solar cable

MOBILE HOME FEEDER

Aluminum

Underground Service Entrance Cable. 600 Volt.
Aluminum Alloy (AA-8176) Conductor. XLPE Insulation. Sunlight Resistant.



Applications

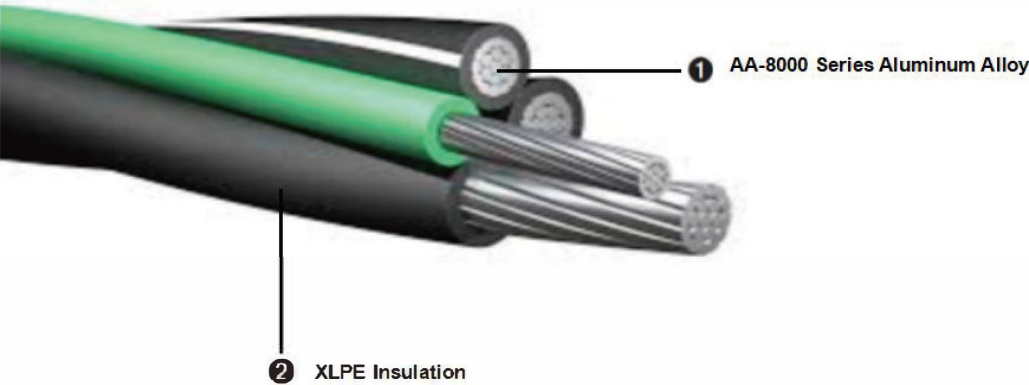
Mobile home feeder is intended for the connection of mobile homes to a supply of electricity where permanent wiring is required as specified in the 2011 National Electrical Code. Suitable for direct burial in earth at conductor temperatures not to exceed 90°C. Voltage rating is 600 volts.

Specification

ASTM B800 and either B801 or B836 (SIW)
UL Standard 44
UL Standard 854
Federal Specification A-A-59544
National Electrical Code, NFPA 70
NEMA WC-70 Construction Requirements

Print sample

Construction



Data

Size (AWG)	Phase Conductor		Neutral Conductor		Ground Conductor		O.D. (Mils)	Wet Weight Per 1000' (Lbs)	Ampacity
	Strand	Diameter (Mils)	Strand	Diameter (Mils)	Strand	Diameter (Mils)			
2-2-4-6	6	388	7	333	6	292	937	301	100
2-2-2-4	6	388	6	333	4	333	937	345	100
2/0-2/0-1-4	18	536	18	459	7	333	1294	553	150
2/0-2/0-2/0-1	18	536	18	536	8	462	1294	671	150
4/0-4/0-2/0-4	18	635	18	536	7	333	1533	784	200
4/0-4/0-4/0-2/0	18	635	18	635	18	536	1533	989	200

Notes

Insulation thickness is 60 mils for 4 AWG - 1/0 AWG, 80 mils for 2/0 AWG and larger. For dwelling ampacity use section 310.15 (B)(7). For compact-stranded construction, the number of wires, as permitted by UL Standard 44 and ASTM B-801, may be reduced for 19-wire constructions to 18 wires minimum.

Solar cable

RHH RHW USE-2

Aluminum

Underground Service Entrance Cable. 600 Volt. Aluminum Alloy (AA-8176)
Conductor.XLPE Insulation. High Heat, Moisture, and Sunlight Resistant. 6 - 4/0 AWG.



Applications

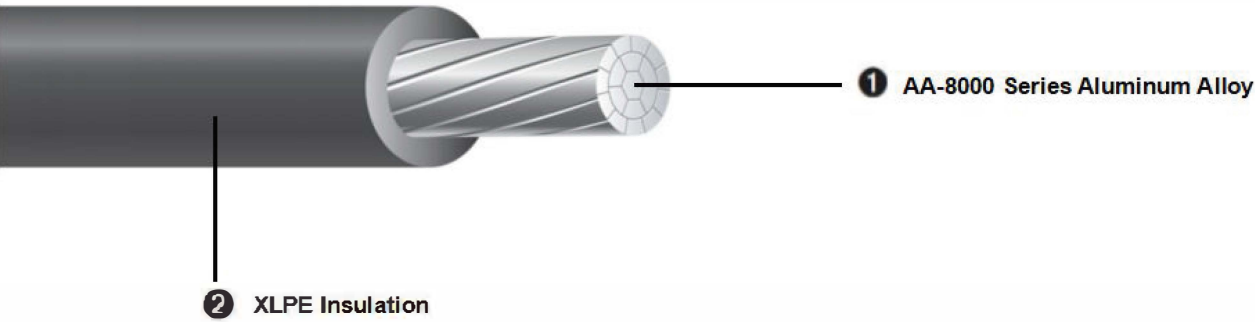
RHH or RHW-2 or USE-2 conductors are used with conduit as specified in the National Electrical Code. When used as Type USE-2, conductors are suitable for use as underground service entrance conductors for direct burial at conductor temperatures not to exceed 90°C. When used as RHW-2 or USE-2, conductor temperatures shall not exceed 90°C in wet or dry locations. Voltage rating for RHW-2 or RHH or USE-2 conductors is 600 volts.

Specifications

ASTM B800 and either B801 or B836 (SIW)
UL 44 for RHH or RHW-2
UL 854 for USE-2
Federal Specification A-A-59544
National Electrical Code, NFPA 70

Print Sample

Construction



Data

Conductor		Insulation Thickness (MILS)	O.D.	Net Weight Per 1000' (LBS)	Allowable Ampacities		
Size (AWG/KCMIL)	Strand Nos				60°C	75°C	90°C
6	7	60	283	44	40	50	60
4	7	60	333	64	55	65	75
2	6	60	388	93	75	90	100
1	18	80	459	124	85	100	115
1/0	18	80	496	149	100	120	135
2/0	18	80	536	180	115	135	150
3/0	18	80	583	218	130	155	175
4/0	18	80	635	266	150	180	205
250	22	95	710	322	170	205	230
300	35	95	760	377	190	230	255
350	35	95	806	431	210	250	280
400	35	95	849	484	225	270	305
500	35	95	926	590	260	310	350
600	58	110	1033	718	285	340	385
700	58	110	1100	829	310	375	420
750	58	110	1128	876	320	385	435
900	58	110	1222	1039	355	425	480
1000	58	110	1280	1138	375	445	500