AL XLPE Type RPVU90 2KV

Single Aluminum Conductors, 1000V/2000V, 90°C MAX - 40°C MIN, Sunlight Resistant and FT4 Flame Test Rated

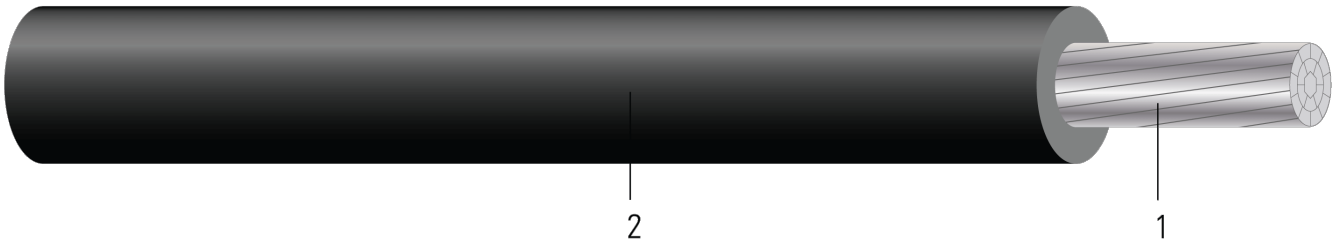


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** AlumaFlex® Compact Stranded Aluminum Alloy (AA-8176)
2. **Insulation:** Cross Linked Polyethylene (XLPE)

APPLICATIONS AND FEATURES:

Single aluminum conductor with low temperature, moisture resisting XLPE (cross linked polyethylene) insulation. Sunlight Resistant. This product meets the current RoHS requirements. No lead is added or used in manufacturing.

SPECIFICATIONS:

- ASTM B836 Compact Rounded Stranded Aluminum Conductors
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- FT1 Flame Test (1,706 BTU/Hr nominal - Vertical Wire Flame Test)
- RoHS Compliant Lead-Free, Silicone-Free, Halogen Free
- AA 8176 Stranded Aluminum Alloy Conductors
- CSA Standard C22.2 No. 271 Photovoltaic Cables

SAMPLE PRINT LEGEND:

{SQMTR} SOUTHWIRE LL90458 {CSA} XXX KCMIL (XX{mm2}) COMPACT AL. --- {ALUMAFLEX}® AA8176 RPVU90 1000V/2000V XLPE FT1 (-40°C) SR DIR BUR RoHS

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand	Insul. Thickness	Insulation Color	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C†
	AWG/ Kcmil	No.	mil		inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
TBA	2	7	80	BK	0.428	107	1.7	398	0.267	0.321	0.045	100
TBA	1	19	95	BK	0.488	139	1.9	502	0.211	0.254	0.046	115
TBA	1/0	19	95	BK	0.526	166	2.1	633	0.168	0.201	0.044	135
TBA	2/0	19	95	BK	0.566	198	2.2	798	0.133	0.160	0.043	150
TBA	3/0	19	95	BK	0.612	238	2.4	1006	0.105	0.126	0.042	175
TBA	4/0	19	95	BK	0.664	287	2.6	1269	0.084	0.100	0.041	205
TBA	250	35	110	BK	0.740	348	2.9	1500	0.071	0.086	0.041	230
618872	300	35	110	BK	0.802	423	3.2	1800	0.059	0.071	0.041	260
672571	350	35	110	BK	0.836	471	3.3	2100	0.050	0.062	0.040	280
TBA	400	35	110	BK	0.879	514	3.5	2400	0.044	0.054	0.040	305
669286	500	34	110	BK	0.966	644	3.8	3000	0.035	0.044	0.039	350
663031	600	41	125	BK	1.055	770	5.2	3600	0.029	0.037	0.039	385
669288	750	53	125	BK	1.170	947	5.8	4500	0.024	0.031	0.038	435
TBA	1000	58	125	BK	1.310	1183	6.5	6000	0.018	0.025	0.037	500

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* Strand count meets minimum number per ASTM
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Strand	Insul. Thickness	Insulation Color	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
	AWG/ Kcmil	No.	mm		mm	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp
TBA	2	7	2.03	BK	10.87	159	43.18	1771	0.88	1.05	0.1476	100
TBA	1	19	2.41	BK	12.40	207	48.26	2234	0.69	0.83	0.1509	115
TBA	1/0	19	2.41	BK	13.36	247	53.34	2817	0.55	0.66	0.1444	135
TBA	2/0	19	2.41	BK	14.38	295	55.88	3551	0.44	0.52	0.1411	150
TBA	3/0	19	2.41	BK	15.54	354	60.96	4477	0.34	0.41	0.1378	175
TBA	4/0	19	2.41	BK	16.87	427	66.04	5647	0.28	0.33	0.1345	205
TBA	250	35	2.79	BK	18.80	518	73.66	6675	0.23	0.28	0.1345	230
618872	300	35	2.79	BK	20.37	629	81.28	8010	0.19	0.23	0.1345	260
672571	350	35	2.79	BK	21.23	701	83.82	9345	0.16	0.20	0.1312	280
TBA	400	35	2.79	BK	22.33	765	88.90	10680	0.14	0.18	0.1312	305
669286	500	34	2.79	BK	24.54	958	96.52	13350	0.11	0.14	0.1280	350
663031	600	41	3.18	BK	26.80	1146	132.08	16020	0.10	0.12	0.1280	385
669288	750	53	3.18	BK	29.72	1409	147.32	20025	0.08	0.10	0.1247	435
TBA	1000	58	3.18	BK	33.27	1760	165.10	26700	0.06	0.08	0.1214	500

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Stock Code and Color (Other than Black)

Stock Code	Size AWG	Color
672572	350	Red
663032	600	Red
669289	750	Red

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