

XLPE/AIA/PVC, 600V Control, Armored, UL Type MC, Multi-Conductor



APPLICATION:

XLPE/AIA/PVC 600 Volt Control Type MC Cables provide an excellent crush resistance and a cost effective alternative to installations in conduit in commercial, industrial and utility applications as well as being Sunlight, Oil and Chemical resistant. They may be used in raceways, direct buried, free air and wet or dry locations at 90°C. Permitted and approved for use per NEC Article 330 for Class 1 Div 2, Class 2 Div 2, and Class 3 Div 1 & 2 industrial hazardous locations.

CONDUCTORS:

- Fully annealed bare copper Class B compressed strand per ASTM Standards

GROUND:

- Uninsulated, fully annealed bare copper Class B compressed strand per ASTM Standards

INSULATION:

- Flame Retardant Cross-linked Polyethylene (FR-XLPE)
- Conductors are Type XHHW-2

COLOR CODE:

- ICEA Method 1, Table E-2
- Additional color coding options available

Cond #	Color	Tracer	Cond #	Color	Tracer	Cond #	Color	Tracer
1	Black	--	13	Blue	Red	25	Yellow	Orange
2	Red	--	14	Orange	Red	26	Brown	Orange
3	Blue	--	15	Yellow	Red	27	Black	Yellow
4	Orange	--	16	Brown	Red	28	Red	Yellow
5	Yellow	--	17	Black	Blue	29	Blue	Yellow
6	Brown	--	18	Red	Blue	30	Orange	Yellow
7	Red	Black	19	Orange	Blue	31	Brown	Yellow
8	Blue	Black	20	Yellow	Blue	32	Black	Brown
9	Orange	Black	21	Brown	Blue	33	Red	Brown
10	Yellow	Black	22	Black	Orange	34	Blue	Brown
11	Brown	Black	23	Red	Orange	35	Orange	Brown
12	Black	Red	24	Blue	Orange	36	Yellow	Brown

Pair cables are Black, Red and numbered. Triad cables are Black, Red, Blue and numbered.
Colors repeats after 36 conductors. There are no Green or White conductors or stripes.

ARMOR:

- Aluminum Interlocked Armor (AIA)

ASSEMBLY:

- Conductors are cabled together with or without non-hygroscopic fillers as required to form a round cable core

JACKET:

- Moisture and sunlight resistant, Flame Retardant Polyvinyl Chloride (FR-PVC) black

STANDARDS:

- Rated at 90°C wet or dry locations
- Meets cold bend test at -25°C
- UL Type MC
- UL 44, UL 1569, UL 1581, UL 1685 (Flame Exposure Test)
- ICEA S-95-658 NEMA WC70
- ICEA T-29-520 210,000 BTU Flame Test
- IEEE 1202/CSA FT4 70,000 BTU Flame Test
- IEEE 383/UL1581 70,000 BTU Flame Test



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Part Number	No. of Conductors	Conductor Size	Ground Wire Size	Insulation Thickness		Diameter Under the Armor		Jacket Thickness		Overall Diameter		Net Weight	
		AWG	AWG	inches	mm	inches	mm	inches	mm	inches	mm	lbs/kft	kg/km
14 AWG CONDUCTORS													
14-02AIAPG	2	14	14	0.030	0.76	0.288	7.32	0.050	1.52	0.581	14.76	160	238
14-03AIAPG	3	14	14	0.030	0.76	0.309	7.85	0.050	1.52	0.625	15.88	180	268
14-04AIAPG	4	14	14	0.030	0.76	0.345	8.76	0.050	1.52	0.665	16.89	210	313
14-05AIAPG	5	14	14	0.030	0.76	0.384	9.75	0.050	1.52	0.695	17.65	230	342
14-07AIAPG	7	14	14	0.030	0.76	0.425	10.80	0.050	1.52	0.751	19.08	275	409
14-09AIAPG	9	14	14	0.030	0.76	0.524	13.31	0.050	1.52	0.821	20.85	330	491
14-12AIAPG	12	14	14	0.030	0.76	0.587	14.91	0.050	1.52	0.895	22.73	400	595
14-19AIAPG	19	14	14	0.030	0.76	0.702	17.83	0.050	1.52	0.951	24.16	550	819
14-25AIAPG	25	14	14	0.030	0.76	0.905	22.99	0.050	1.52	1.155	29.34	730	1086
14-37AIAPG	37	14	14	0.030	0.76	0.651	16.54	0.050	1.52	1.301	33.05	980	1458
12 AWG CONDUCTORS													
12-02AIAPG	2	12	12	0.030	0.76	0.326	8.28	0.050	1.52	0.602	15.29	196	292
12-03AIAPG	3	12	12	0.030	0.76	0.351	8.92	0.050	1.52	0.612	15.54	226	336
12-04AIAPG	4	12	12	0.030	0.76	0.391	9.93	0.050	1.52	0.654	16.61	246	366
12-05AIAPG	5	12	12	0.030	0.76	0.435	11.05	0.050	1.52	0.706	17.93	302	449
12-07AIAPG	7	12	12	0.030	0.76	0.486	12.34	0.050	1.52	0.743	18.87	362	539
12-09AIAPG	9	12	12	0.030	0.76	0.594	15.09	0.050	1.52	0.891	22.63	458	682
12-12AIAPG	12	12	12	0.030	0.76	0.665	16.89	0.050	1.52	0.935	23.75	545	811
12-19AIAPG	19	12	12	0.030	0.76	0.801	20.35	0.050	1.52	1.081	27.46	779	1159
12-25AIAPG	25	12	12	0.030	0.76	0.981	24.92	0.050	1.52	1.301	33.05	1040	1548
12-37AIAPG	37	12	12	0.030	0.76	1.111	28.22	0.050	1.52	1.498	38.05	1430	2128
10 AWG CONDUCTORS													
10-02AIAPG	2	10	10	0.030	0.76	0.373	9.47	0.050	1.52	0.658	16.71	240	357
10-03AIAPG	3	10	10	0.030	0.76	0.401	10.19	0.050	1.52	0.721	18.31	312	464
10-04AIAPG	4	10	10	0.030	0.76	0.451	11.46	0.050	1.52	0.731	18.57	343	510
10-05AIAPG	5	10	10	0.030	0.76	0.563	14.30	0.050	1.52	0.855	21.72	423	630
10-07AIAPG	7	10	10	0.030	0.76	0.616	15.65	0.050	1.52	0.882	22.40	509	757
10-09AIAPG	9	10	10	0.030	0.76	0.741	18.82	0.050	1.52	1.021	25.93	630	938
10-12AIAPG	12	10	10	0.030	0.76	0.807	20.50	0.050	1.52	1.077	27.36	758	1128

The dimension and weights shown are nominal and subject to industry standards and manufacturing tolerances.
Other designs available upon request.



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