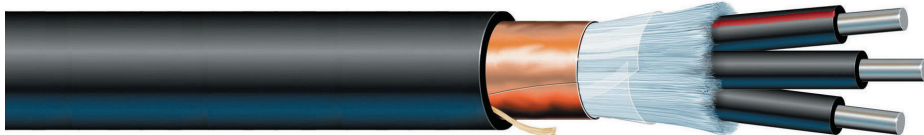


Underground Armored Railroad Signal Cable

Multiple EPR insulated conductors | 14, 12, 10, 9, and 6 AWG / PE jacket / 600 volt



Applications

These are multi-conductor 600 volt signal cables designed for direct burial, aerial or duct installation. They consist of ethylene propylene rubber (EPR) insulated conductors, bronze tape armor, a compound-filled cushion tape and a tough polyethylene (PE) outer jacket.

Specifications and Ratings

- AREMA Signal Parts 10.3.17, 10.3.19, 10.3.21
- ICEA S-95-658 (NEMA WC70)

Design Parameters

CONDUCTOR: Solid, soft drawn, bare or tinned copper per ASTM B258 and ASTM B33. An optional stranded conductor, Class B or Class C per ASTM B3 and ASTM B8, is available upon request.

INSULATION: Heat and moisture resistant EPR meets the requirements of the AREMA Communications & Signals (C&S) Manual of Recommended Practices part 10.3.19, suitable for a maximum continuous operating temperature of 90°C.

CIRCUIT IDENTIFICATION: Black insulated conductors with number print: (1-ONE, 2-TWO, 3-THREE, etc.). One black conductor with a red stripe serves as a tracer.

ASSEMBLY: The insulated circuit conductors are cabled together with non-hygroscopic fillers as needed. The cabled core is wrapped with a compound-filled cushion tape.

ARMOR: 10 mil thick bronze tape helically applied with a minimum overlap of 20%. An optional 10 mil thick bronze tape corrugated and longitudinally applied with a minimum overlap of 12.5% is available upon request.

OVERALL JACKET: Heat and moisture resistant black polyethylene (PE) meets the requirements of the AREMA C&S manual part 10.3.21. An optional ripcord underneath the overall jacket is available upon request.

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Part Number	Number of Conductors	Conductor Size	Average Insulation Thickness in (mm)	Average Jacket Thickness in (mm)	Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
196142	2	14AWG	.078 (2.0)	.063 (1.6)	0.660 (16.8)	216 (320)
196143	3	14AWG	.078 (2.0)	.063 (1.6)	0.700 (17.8)	257 (380)
196144	4	14AWG	.078 (2.0)	.063 (1.6)	0.760 (19.3)	307 (454)
196145	5	14AWG	.078 (2.0)	.063 (1.6)	0.830 (21.1)	360 (533)
196147	7	14AWG	.078 (2.0)	.078 (2.0)	0.930 (23.6)	456 (675)
196149	9	14AWG	.078 (2.0)	.078 (2.0)	1.075 (27.3)	583 (863)
196210	10	14AWG	.078 (2.0)	.078 (2.0)	1.170 (29.7)	641 (949)
196212	12	14AWG	.078 (2.0)	.078 (2.0)	1.205 (30.6)	718 (1063)
196215	15	14AWG	.078 (2.0)	.094 (2.3)	1.365 (34.7)	889 (1316)
196216	16	14AWG	.078 (2.0)	.094 (2.3)	1.365 (34.7)	924 (1368)
196219	19	14AWG	.078 (2.0)	.094 (2.3)	1.440 (36.6)	1041 (1541)
196221	21	14AWG	.078 (2.0)	.094 (2.3)	1.510 (29.2)	1133 (1677)
196227	27	14AWG	.078 (2.0)	.094 (2.3)	1.715 (43.6)	1412 (2090)
196237	37	14AWG	.078 (2.0)	.109 (2.8)	1.945 (49.4)	1854 (2744)
196122	2	12AWG	.078 (2.0)	.063 (1.6)	0.695 (17.7)	244 (361)
196123	3	12AWG	.078 (2.0)	.063 (1.6)	0.730 (18.5)	292 (432)
196124	4	12AWG	.078 (2.0)	.063 (1.6)	0.800 (20.3)	354 (524)
196125	5	12AWG	.078 (2.0)	.063 (1.6)	0.870 (22.1)	417 (617)
196127	7	12AWG	.078 (2.0)	.078 (2.0)	0.980 (24.9)	533 (789)
196129	9	12AWG	.078 (2.0)	.078 (2.0)	1.135 (28.8)	682 (1009)
196310	10	12AWG	.078 (2.0)	.078 (2.0)	1.230 (31.2)	752 (1113)
196312	12	12AWG	.078 (2.0)	.078 (2.0)	1.270 (32.3)	845 (1251)
196102	2	10AWG	.078 (2.0)	.063 (1.6)	0.735 (18.7)	287 (425)
196103	3	10AWG	.078 (2.0)	.063 (1.6)	0.780 (19.8)	353 (522)
196104	4	10AWG	.078 (2.0)	.063 (1.6)	0.850 (21.6)	429 (635)
196105	5	10AWG	.078 (2.0)	.078 (2.0)	0.960 (24.4)	528 (781)
196107	7	10AWG	.078 (2.0)	.078 (2.0)	1.045 (26.5)	655 (969)
196109	9	10AWG	.078 (2.0)	.078 (2.0)	1.210 (30.7)	842 (1246)
196410	10	10AWG	.078 (2.0)	.094 (2.3)	1.350 (34.3)	958 (1418)
196412	12	10AWG	.078 (2.0)	.094 (2.3)	1.395 (35.4)	1086 (1607)
196092	2	9AWG	.078 (2.0)	.063 (1.6)	0.795 (20.2)	316 (468)
196093	3	9AWG	.078 (2.0)	.063 (1.6)	0.810 (20.6)	396 (586)
196094	4	9AWG	.078 (2.0)	.078 (2.0)	0.920 (23.4)	503 (744)
196095	5	9AWG	.078 (2.0)	.078 (2.0)	1.000 (25.4)	597 (884)
196097	7	9AWG	.078 (2.0)	.078 (2.0)	1.090 (27.7)	746 (1104)
196098	8	9AWG	.078 (2.0)	.078 (2.0)	1.175 (29.8)	845 (1251)
196099	9	9AWG	.078 (2.0)	.078 (2.0)	1.265 (32.1)	960 (1420)
196910	10	9AWG	.078 (2.0)	.094 (2.3)	1.410 (35.8)	1090 (1613)
196912	12	9AWG	.078 (2.0)	.094 (2.3)	1.455 (37.0)	12412 (1838)
196062	2	6AWG	.094 (2.3)	.078 (2.0)	0.960 (24.4)	504 (746)
196063	3	6AWG	.094 (2.3)	.078 (2.0)	1.020 (25.9)	640 (947)
196064	4	6AWG	.094 (2.3)	.078 (2.0)	1.115 (28.3)	791 (1171)
196065	5	6AWG	.094 (2.3)	.078 (2.0)	1.220 (31.0)	950 (1406)
196067	7	6AWG	.094 (2.3)	.094 (2.3)	1.365 (34.7)	1238 (1832)
196068	8	6AWG	.094 (2.3)	.094 (2.3)	1.480 (37.6)	1407 (2082)
196069	9	6AWG	.094 (2.3)	.094 (2.3)	1.595 (40.5)	1601 (2369)

NOTE: Armor thickness is .010 in • .25 mm. Corrugated armor is available upon request. Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.

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