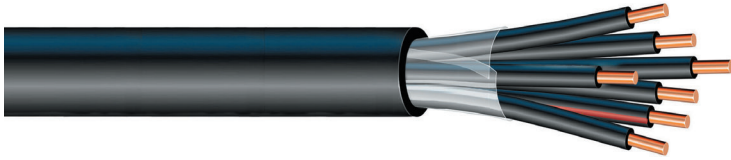


# Underground Signal Cable

Multiple EPR insulated conductors | 14, 10, 9, and 6 AWG / PE jacket / 600 and 2000 volt



## Applications

These are multi-conductor 600 and 2000 volt signal cables specifically designed for use in railroad signal and control circuits in accordance with the AREMA Signal Manual. They are intended for buried installation for use wherever long service life is required. They consist of ethylene propylene rubber (EPR) insulated conductors and a polyethylene outer jacket.

## Specifications & Ratings

- AREMA Signal Parts 10.3.16, 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 B33.

**INSULATION:** Heat and moisture resistant EPR meeting the requirements of AREMA C&S Manual Part 10.3.19, suitable for a maximum continuous operating temperature of 90°C.

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

**ASSEMBLY:** The insulated circuit conductors are cabled together with non-hygroscopic fillers as needed. The cable core is wrapped in a binder tape.

**OVERALL JACKET:** Heat and moisture-resistant black polyethylene (PE) meets the requirements of AREMA C&S Manual Part 10.3.21. Neoprene and LSZH XLPO are available. Optional ripcord placed underneath the overall jacket is available upon request.

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Number of Conductors	Rated Voltage	Conductor Size	Average Insulation Thickness in (mm)	Average Jacket Thickness in (mm)	Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
5	600	14AWG	.060 (15)	.080 (2.0)	0.730 (18.5)	224 (334)
7	600	14AWG	.060 (15)	.080 (2.0)	0.790 (20.1)	289 (431)
12	600	14AWG	.060 (15)	.095 (2.4)	1.050 (26.7)	486 (724)
19	600	14AWG	.060 (15)	.095 (2.4)	1.225 (31.1)	712 (1061)
5	600	10AWG	.060 (15)	.080 (2.0)	0.830 (21.1)	353 (526)
7	600	10AWG	.060 (15)	.095 (2.4)	0.935 (23.7)	465 (693)
12	600	10AWG	.060 (15)	.095 (2.4)	1.210 (30.7)	789 (1176)
5	600	9AWG	.060 (15)	.080 (2.0)	0.870 (22.1)	411 (612)
7	600	9AWG	.060 (15)	.095 (2.4)	0.980 (24.9)	545 (812)
12	600	9AWG	.060 (15)	.095 (2.4)	1.270 (32.3)	928 (1383)
3	600	6AWG	.080 (2.0)	.095 (2.4)	0.960 (24.4)	379 (565)
5	600	6AWG	.080 (2.0)	.095 (2.4)	1.145 (29.1)	621 (925)
5	2000	14AWG	.095 (2.4)	.095 (2.4)	0.960 (24.4)	344 (513)
7	2000	14AWG	.095 (2.4)	.095 (2.4)	1.040 (26.4)	443 (660)
12	2000	14AWG	.095 (2.4)	.110 (2.8)	1.390 (35.3)	741 (104)
19	2000	14AWG	.095 (2.4)	.110 (2.8)	1.620 (41.1)	1085 (1617)
5	2000	10AWG	.095 (2.4)	.095 (2.4)	1.060 (26.9)	487 (726)
7	2000	10AWG	.095 (2.4)	.095 (2.4)	1.155 (29.3)	637 (949)
12	2000	10AWG	.095 (2.4)	.110 (2.8)	1.550 (39.4)	1075 (1602)
5	2000	9AWG	.095 (2.4)	.095 (2.4)	1.100 (27.9)	551 (821)
7	2000	9AWG	.095 (2.4)	.095 (2.4)	1.200 (30.4)	725 (1080)
12	2000	9AWG	.095 (2.4)	.110 (2.8)	1.610 (40.9)	1226 (1827)
3	2000	6AWG	.110 (2.8)	.095 (2.4)	1.095 (27.8)	565 (842)
5	2000	6AWG	.110 (2.8)	.110 (2.8)	1.350 (34.3)	905 (1348)

Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.

Optional features available are: 1) Stranded conductors per ASTM B8.

