

## Underground Signal Cable

EPR insulated conductors / 14, 12, 10, 9 & 6 AWG / neoprene jacket / 600 & 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 and Ratings

- AREMA Signal Parts 10.3.16, 10.3.19 and 10.3.21
- ICEA S-95-658 (NEMA WC 70)

### Construction

**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 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.

### Prysmian Group

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Part Number	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)
191105	5	600	14 AWG	.060 (1.5)	.080 (2.0)	0.730 (18.5)	224 (334)
191107	7	600	14 AWG	.060 (1.5)	.080 (2.0)	0.790 (20.1)	289 (431)
191112	12	600	14 AWG	.060 (1.5)	.095 (2.4)	1.050 (26.7)	486 (724)
191119	19	600	14 AWG	.060 (1.5)	.095 (2.4)	1.225 (31.1)	712 (1061)
191305	5	600	10 AWG	.060 (1.5)	.080 (2.0)	0.830 (21.1)	353 (526)
191307	7	600	10 AWG	.060 (1.5)	.095 (2.4)	0.935 (23.7)	465 (693)
191312	12	600	10 AWG	.060 (1.5)	.095 (2.4)	1.210 (30.7)	789 (1176)
191405	5	600	9 AWG	.060 (1.5)	.080 (2.0)	0.870 (22.1)	411 (612)
191407	7	600	9 AWG	.060 (1.5)	.095 (2.4)	0.980 (24.9)	545 (812)
191412	12	600	9 AWG	.060 (1.5)	.095 (2.4)	1.270 (32.3)	928 (1383)
191603	3	600	6 AWG	.080 (2.0)	.095 (2.4)	0.960 (24.4)	379 (565)
191605	5	600	6 AWG	.080 (2.0)	.095 (2.4)	1.145 (29.1)	621 (925)
198145	5	2000	14 AWG	.095 (2.4)	.095 (2.4)	0.960 (24.4)	344 (513)
198147	7	2000	14 AWG	.095 (2.4)	.095 (2.4)	1.040 (26.4)	443 (660)
198212	12	2000	14 AWG	.095 (2.4)	.110 (2.8)	1.390 (35.3)	741 (104)
198219	19	2000	14 AWG	.095 (2.4)	.110 (2.8)	1.620 (41.1)	1085 (1617)
198105	5	2000	10 AWG	.095 (2.4)	.095 (2.4)	1.060 (26.9)	487 (726)
198107	7	2000	10 AWG	.095 (2.4)	.095 (2.4)	1.155 (29.3)	637 (949)
198112	12	2000	10 AWG	.095 (2.4)	.110 (2.8)	1.550 (39.4)	1075 (1602)
198095	5	2000	9 AWG	.095 (2.4)	.095 (2.4)	1.100 (27.9)	551 (821)
198097	7	2000	9 AWG	.095 (2.4)	.095 (2.4)	1.200 (30.4)	725 (1080)
198312	12	2000	9 AWG	.095 (2.4)	.110 + 2.8	1.610v40.9	1226 (1827)
198063	3	2000	6 AWG	.110 (2.8)	.095 (2.4)	1.095 (27.8)	565 (842)
198065	5	2000	6 AWG	.110 (2.8)	.110 (2.8)	1.350 (34.3)	905 (1348)

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

The data herein is approximate and subject to normal manufacturing tolerances.

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