



CU 600V NLEPR PE ARMORED UNDERGROUND RAILROAD SIGNAL CABLE

600 Volt 90°C - P.C.F. - AREMA PART 10.3.17. Heavy Duty Direct Burial Railroad Signal Cable for The Transit Systems



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid Uncoated Copper
2. **Insulation:** High Performance No Lead Ethylene Propylene Rubber NL-EPR
3. **Fillers:** Non-Wicking Flame Retardant Fillers with 8 mil Cushioning Tape
4. **Aarmor:** Helically Wrapped 7 mils Cu 194 Alloy Tape
5. **Rip Chord:** Rip Chord for Ease of Jacket Removal
6. **Jacket:** Polyethylene PE Jacket

APPLICATIONS AND FEATURES:

Southwire 600V ECO Friendly No Lead EPR/PE Armored Underground Signal Cable is suited for use in vital railroad signal circuit applications where crush resistance, termite and rodent protection, and secure service life are a concern. May be installed in wet or dry locations. These cables are capable of operating continuously at a conductor temperature not in excess of 90°C for normal operation, 130°C for emergency overload conditions, and 250°C for short circuit conditions.

- Mechanically Rugged
- High Performance No Lead EPR
- Excellent Moisture Resistance
- Resistant to Heat Aging and Environmental Hazards
- Cleanly Strips from Conductor
- Superior Deformation Resistance
- Pull Chord Feature (P.C.F.) for ease of terminating and splicing
- RoHS/Proposition 65 Compliant
- Conductors Number Coded with One in Each layer Marked as "Tracer" for Quick Identification

SPECIFICATIONS:





- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B496 Compact Round Concentric-lay-standard copper
- ICEA S-73-532 Standard for Control, Thermocouple Extension and Instrumentation Cables
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- AREMA Signal Manual Part 10.3.19 for EPR Type I Insulation
- AREMA Signal Manual Part 10.3.21 for PE Type II Jacket





Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Strand Count	Cond. Number	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/kcmil	No. of Strands	No.	mil	mil	inch	lb/1000ft
TBA	14	1	2	78	63	0.626	145
TBA	14	1	3	78	63	0.691	193
TBA	14	1	4	78	63	0.717	219
587768	14	1	5	78	63	0.810	274
587787	14	1	7	78	78	0.876	345
TBA	14	1	9	78	78	1.011	428
TBA	14	1	10	78	78	1.096	472
587791	14	1	12	78	78	1.132	598
TBA	12	1	2	78	63	0.600	169
TBA	12	1	3	78	63	0.698	214
TBA	12	1	4	78	63	0.758	262
TBA	12	1	5	78	63	0.825	312
TBA	12	1	7	78	78	0.926	418
TBA	12	1	9	78	78	1.071	567
TBA	12	1	10	78	78	1.163	626
TBA	12	1	12	78	78	1.201	717
TBA	10	1	2	78	63	0.702	204
TBA	10	1	3	78	63	0.743	263
TBA	10	1	4	78	63	0.809	327
TBA	10	1	5	78	78	0.912	408
TBA	10	1	7	78	78	0.990	528
TBA	10	1	9	78	78	1.147	711
TBA	10	1	10	78	94	1.280	812
TBA	10	1	12	78	94	1.321	928
TBA	9	1	2	78	63	0.757	251
596452	9	1	3	78	63	0.770	324
TBA	9	1	4	78	78	0.869	408
587756	9	1	5	78	78	0.946	514
587877	9	1	7	78	78	1.027	608
TBA	9	1	8	78	78	1.060	652
TBA	9	1	10	78	94	1.133	818
TBA	9	1	9	78	78	1.192	764
TBA	9	1	12	78	94	1.373	1076
TBA	6	1	2	94	78	0.916	394
587630	6	1	3	94	78	0.972	530
TBA	6	1	4	94	78	1.061	674
587640	6	1	5	94	78	1.161	784
587639	6	1	7	94	94	1.300	1058
TBA	6	1	8	94	94	1.407	1256
TBA	6	1	9	94	94	1.512	1399
TBA	4	1	2	94	78	1.024	533





Stock Number	Cond. Size	Strand Count	Cond. Number	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight
	AWG/kcmil	No. of Strands	No.	mil	mil	inch	lb/1000ft
TBA	4	1	5	94	94	1.338	1141
587874	2	1	3	94	94	1.239	1108

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

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.

