

# OUTSIDE

# PLANT

# COPPER

# CABLES

#### BRANCH OFFICES

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[www.prioritywire.com](http://www.prioritywire.com)







**CONDUCTORS: Solid, annealed copper, in 24 and 22 AWG.**

**PAIRS:** Insulated conductors are twisted together to form pairs, with different twist lay lengths to minimize capacitance unbalance and cross-talk.

**CORE ASSEMBLY:** In cables with 25 pairs or less, the pairs are laid forming a cylindrical shape. For larger cables, units of 25 pairs or superunits of 50 or 100 pairs are assembled to form the final core. The core is filled with ETPR (80° C) compound. Then covered with a non-hygroscopic tape with an overlap. A filling compound is applied over the wrap.

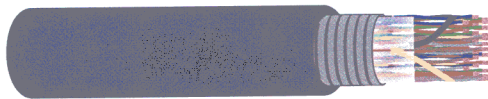
All units and superunits are identified with color coded, non-hygroscopic, non-wicking binders. In order to have a rounder shape and better electrical performance, all units and super-units are divided into 12 and 13 pairs sub-units.

**SHIELD:** Corrugated, copolymer coated, 8-mil thick aluminum tape applied longitudinally with an overlap. The coating reduces the risk of shield corrosion. A flooding compound with adhesive properties is applied over the shield.

**JACKET:** Black, linear, low-density, high molecular weight polyethylene. Sequential footage (or meter) markings are printed on the jacket at 2 foot (or 1 m) intervals.

**Filled Foam Skin ALPETH Cable**

**REA/RUS  
PE-89**



**DESCRIPTION**

**INSULATION:** Expanded polyethylene (Foam Skin) with an external layer of solid, high-density polyethylene in distinctive colors, conforming to telephone industry standards.

**24 AWG**

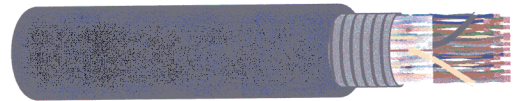
Number of Pairs	Nominal OD	Approximate Cable Weight
	In	Lbs/kft
6	0.45	70
12	0.51	107
18	0.59	144
25	0.67	194
50	0.77	302
75	0.87	396
100	0.96	506
200	1.20	949
300	1.54	1368
400	1.71	1680
600	2.05	2515
900	2.52	3628
1200	2.91	5123

**22 AWG**

Number of Pairs	Nominal OD	Approximate Cable Weight
	In	Lbs/kft
6	0.47	87
12	0.59	137
18	0.67	211
25	0.81	302
50	0.94	453
75	1.14	644
100	1.22	771
200	1.65	1482
300	1.91	2106
400	2.03	2602
600	2.62	4090
900	3.15	6025

**Filled Solid ALPETH Cable**

**REA/RUS  
PE-39**



**DESCRIPTION**

**INSULATION:** Solid, high-density polyethylene or polypropylene in distinctive colors, conforming to telephone industry standards.

**24 AWG**

Number of Pairs	Nominal OD	Approximate Cable Weight
	In	Lbs/kft
6	0.47	107
12	0.59	157
18	0.67	198
25	0.75	241
50	0.89	402
75	1.04	563
100	1.16	701
200	1.48	1261
300	1.71	1794
400	1.95	2260
600	2.35	3282
900	2.81	4727
1200	3.23	5687

**22 AWG**

Number of Pairs	Nominal OD	Approximate Cable Weight
	In	Lbs/kft
6	0.57	134
12	0.67	201
18	0.75	228
25	0.85	342
50	1.04	563
75	1.22	798
100	1.38	1019
200	1.75	1797
300	2.13	2625
400	2.40	3997
600	2.87	4976