



I. Exchange Cables

Filled Solid ALPETH Cable

REA/RUS
PE-39
62.39.01

DESCRIPTION:

CONDUCTORS:

Solid, annealed copper wires, in 26, 24, 22 and 19 AWG

INSULATION:

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

PAIRS:

Insulated conductors are twisted together to form pairs, with different twist lay lengths to minimize capacitance unbalance and crosstalk.

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 superunits are divided into 12 and 13 pair 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.



APPLICATION:

Outside plant telephony or underground installation.

REFERENCE SPECIFICATIONS:

Meets REA/RUS PE-39
ANSI/ICEA S-84-608-1994.
Standard for Telecommunications Cable Filled, Polyolefin Insulated,
Copper Conductor.
Telecordia (Bellcore) equivalent: none

CERTIFICATION:

ISO-9001 Quality Assurance System

PACKAGING:

Packaged on wooden reels with a thermal wrap applied over the cable.
The reels are also lagged for additional protection.



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ELECTRICAL CHARACTERISTICS

	Conductor Size AWG			
	26	24	22	19
MUTUAL CAPACITANCE Less than 12 pair Over 12 pairs	83±7 nF/mile - 52±4 nF/km 83±4 nF/mile - 52±2 nF/km			
CAPACITANCE UNBALANCE Pair to Pair Maximum Individual 13 or more pairs RMS	80 pF/kft 145 pF/km 25 pF/kft 45 pF/km			
CAPACITANCE UNBALANCE Pair to Ground: Individual Pair Cable Average for 13 or more pairs	800 pF/kft 2625 pF/km 175 pF/kft 574 pF/km			
FEXT Far end CROSSTALK, dB/kft Mean Power Sum @ 150 kHz @ 772 kHz @ 1.6 MHz @ 3.15 MHz @ 6.3 MHz	61 47 41 35 29	63 49 42 37 31	63 49 43 37 31	65 51 44 39 33
NEXT Near end CROSSTALK, dB/kft Mean Power Sum @ 150 kHz @ 772 kHz @ 1.6 MHz @ 3.15 MHz @ 6.3 MHz	58 47 43 35 29	63 49 42 37 31	63 49 43 37 31	65 51 44 39 33
ATTENUATION @ 150 kHz @ 20°C Nominal dB/kft Nominal dB/km	3.6 111.8	2.4 7.9	1.8 5.9	1.3 4.3
HIGH VOLTAGE TEST d-c kV for 3 seconds Conductor to Conductor Conductor to Shield	2.8 15	4.0 15	5.0 15	7.0 15
d-c CONDUCTOR RESISTANCE @ 20°C, Maximum Individual Ω/kft Ω/km	44.0 144.4	27.5 90.2	17.4 57.1	8.7 28.5
RESISTANCE UNBALANCE Maximum Individual Maximum Average	5% 1.5%	5% 1.5%	5% 1.5%	5% 1.5%
INSULATION RESISTANCE MΩ · Mile MΩ · km	1,000 1,600			

26 AWG

Product Code	Number of Pairs	Nominal OD		Approximate Cable Weight		Standard Length	
		In	mm	Lbs/kft	Kg/km	Ft	m
625152	25	0.61	15.5	159	237	5000	1525
625153	50	0.75	19.0	257	384	5000	1525
625154	100	0.95	24.0	434	647	3000	915
625156	200	1.22	31.0	782	1166	3000	915
625157	300	1.44	36.5	1114	1661	3000	915
625158	400	1.61	41.0	1428	2129	3000	915
625159	600	1.89	48.0	2927	3023	1500	460
625160	900	2.26	57.5	2944	4390	1000	305
625161	1200	2.70	68.5	4003	5970	1000	205
625162	1800	3.21	81.5	5819	8678	650	200

24 AWG

Product Code	Number of Pairs	Nominal OD		Approximate Cable Weight		Standard Length	
		In	mm	Lbs/kft	Kg/km	Ft	m
626168	6	0.47	12.0	107	160	5000	1525
626169	12	0.59	15.0	157	235	5000	1525
626170	18	0.67	17.0	198	295	5000	1525
626171	25	0.75	19.0	241	360	5000	1525
626172	50	0.89	22.5	402	600	5000	1525
626173	75	1.04	26.5	563	840	5000	1525
626174	100	1.16	29.5	701	1045	3000	915
626196	200	1.48	37.5	1261	1880	3000	915
626177	300	1.71	43.5	1794	2675	3000	915
626178	400	1.95	49.5	2260	3370	1650	500
626179	600	2.35	60.0	3282	4895	1650	500
626180	900	2.81	71.5	4727	7050	1000	305
626181	1200	3.23	82.0	5687	8481	650	200

22 AWG

Product Code	Number of Pairs	Nominal OD		Approximate Cable Weight		Standard Length	
		In	mm	Lbs/kft	Kg/km	Ft	m
626188	6	0.57	14.5	134	200	5000	1525
626189	12	0.67	17.0	201	300	5000	1525
626190	18	0.75	19.0	228	340	5000	1525
626191	25	0.85	21.5	342	510	5000	1525
626192	50	1.04	26.5	563	840	3000	1525
626193	75	1.22	31.0	798	1190	3000	915
626194	100	1.38	35.0	1019	1520	3000	915
626196	200	1.75	44.5	1797	2680	1650	500
626197	300	2.13	54.0	2625	3915	1650	500
626198	400	2.40	61.0	3997	5960	1000	305
626199	600	2.87	73.0	4976	7420	1000	305

19 AWG

Product Code	Number of Pairs	Nominal OD		Approximate Cable Weight		Standard Length	
		In	mm	Lbs/kft	Kg/km	Ft	m
626205	6	0.71	18.0	211	315	5000	1525
626206	12	0.85	21.5	349	520	5000	1525
626207	18	0.96	24.5	466	695	5000	1525
626208	25	1.06	27.0	590	880	5000	1525
626209	50	1.42	36.0	1059	1580	3000	915
626210	75	1.66	42.0	1485	2215	3000	915
626211	100	1.83	46.5	1921	2865	3000	915
626213	200	2.48	63.0	3557	5305	1000	305
626214	300	2.95	75.0	5197	7750	650	200

Note: Values shown are nominal, subject to manufacturing tolerances.
Special lengths are available upon request.