



II. Buried Wire

Double Jacketed Buried Distribution Wire

(Gopher resistant)

PE-86
62.86.01

DESCRIPTION:

CONDUCTORS:

Solid, annealed 22 AWG copper with a nominal diameter of 0.0250" (0.634 mm)

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, with a maximum length of 6.5" (165 mm).

CORE ASSEMBLY:

The core is filled with ETPR (80°C) compound, then covered with a non-hygroscopic tape with an overlap. A filling compound is also applied over the wrap.

INNER JACKET

Black, linear, low-density, high molecular weight polyethylene.

SHIELD:

Corrugated, copper-clad alloy steel (0.005" thick) tape applied longitudinally with an overlap. A flooding compound is applied on both sides of the tape.

OUTER 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:

Service drop for telephony, underground installation or direct burial.

REFERENCE SPECIFICATIONS:

ANSI/ICEA S-86-634-1991

Standard for Telecommunications Cable Filled, Polyolefin Insulated, Cooper Conductor. Meets REA/RUS PE-86 (for 2 and 3 pair, 22AWG when a bronze shield - BDW B or when a cooper clad steel armor - BDW G DJ is used)

CERTIFICATION:

ISO-9001 Quality Assurance System

PACKAGING:

Packaged on wooden reels that are lagged for additional protection.



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MECHANICAL PROPERTIES

Number Of Pairs	Nominal OD		Cable Net Weight		Shipping Length		Approximate Shipping Weight	
	In	Mm	Lbs/kft	kg/km	FT	m	Lbs	kg
2	0.40	10.3	94	140	2500 or 5000	760 or 1520	292 558	132 253
3	0.44	11.1	110	162	2500 or 5000	760 or 1520	329 633	149 287
6	0.51	12.9	149	222	1000 or 2500 or 5000	305 or 760 or 1520	206 435 873	93 197 396

Note: Values shown are nominal, subject to manufacturing tolerances.

ELECTRICAL CHARACTERISTICS

MUTUAL CAPACITANCE, average	83±7 nF/mile - 52±4 nF/km
CAPACITANCE UNBALANCE: Pair to pair Maximum Individual	80 pF/kft 145 pF/km
CAPACITANCE UNBALANCE: Pair to Ground Individual Maximum	800 pF/kft 2625 pF/km
FEXT Far end CROSSTALK, dB/kft minimum Power Sum @150 kHz	63
NEXT Near end CROSSTALK, dB/kft minimum Power Sum @772 kHz	44
ATTENUATION @ 150 kHz @ 20°C, Maximum Individual Nominal dB/kft Nominal dB/km	11.0 6.8
HIGH VOLTAGE TEST, d-c kV for 3 seconds Conductor to Conductor Conductor to Shield	5.0 20.0
D-c CONDUCTOR RESISTANCE @ 20°C, Maximum Individual Ω/kft Ω/km	17.4 57.1
RESISTANCE UNBALANCE Maximum Individual Maximum Average	5% 1.5%
INSULATION RESISTANCE, Minimum MΩ · Mile MΩ · km	1,000 1,600