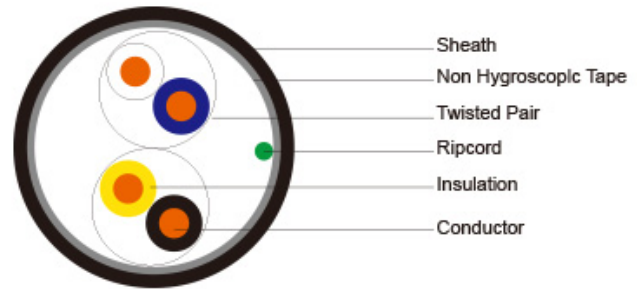


PE Insulated & PE Sheathed Non Metallic Reinforced Drop Wires to RUS (REA) PE-7



| | | | |
|---|---|------------|------------|
| Application | The drop wires are one or two pair aerial service wires designed for use in extending telephone service to subscriber premises from the cable terminal. | | |
| Standards | RUS (REA) PE-7 | | |
| Construction | | | |
| Conductors: | Solid annealed bare copper 0.5/0.8mm as per ASTM B-3/IEC 60228 Class 1 | | |
| Insulation: | Solid polyethylene as per ASTM D 1248/IEC 60708 | | |
| Cable Core Assembly & Core Wrapping | Individual conductors are twisted into pairs and wrapped with PETP tape | | |
| Strength Member: | Aramid yarn as non-metallic strength member is placed inside the sheath to provide longitudinal strength | | |
| Sheath | PE is extruded over the core to provide protection against mechanical damage, degradation by sunlight and water ingress | | |
| Ripcord | A ripcord made of polyamide is placed parallel to the core to facilitate sheath removal | | |
| Electrical Properties | | | |
| Conductor Diameter | mm | 0.5 | 0.8 |
| Conductor Gauge Size | AWG | 24 | 20 |
| Maximum Conductor Resistance @20°C | Ω/km / Ω/mile | 91/145.78 | 34.6/55.72 |
| Minimum Insulation Resistance @500V DC | MΩ.km / MΩ.mile | 10000/6214 | 10000/6214 |
| Maximum Resistance Unbalance | % | 2 | 2 |
| Average Mutual Capacitance @1000Hz | nF/km / nF/kft | 55/16.8 | 55/16.8 |
| Maximum Capacitance Unbalance pair-to-pair | pF/km / pF/kft | 300/91 | 300/91 |
| Maximum Capacitance Unbalance pair-to-ground | pF/km / pF/kft | 1000/303.4 | 1000/303.4 |
| Impedance @0.8KHz | Ω/km / Ω/mile | 600/965.6 | 600/965.6 |

| | | | |
|-------------------------------------|---------------|---------------|---------------|
| Impedance @64KHz | Ω/km / Ω/mile | 125/201.2 | 125/201.2 |
| Impedance @772KHz | Ω/km / Ω/mile | 100/160.9 | 100/160.9 |
| Maximum Average Attenuation @0.8KHz | Ω/km / Ω/mile | 1.5/2.4 | 1.5/2.4 |
| Maximum Average Attenuation @64KHz | Ω/km / Ω/mile | 8.0/12.87 | 8.0/12.87 |
| Maximum Average Attenuation @772KHz | Ω/km / Ω/mile | 18/28.97 | 18/28.97 |
| Dielectric Strength 1min | V | 1000DC/1500AC | 1000DC/1500AC |

Mechanical and Thermal Properties

Temperature range during operation (fixed state): -30°C – +70°C

Temperature range during installation (mobile state): -20°C – +50°C

Minimum bending radius: 10 x Overall Diameter

Color Code

| | A wire | B wire |
|------|--------|--------|
| 1 PR | White | Blue |
| 1 PR | Yellow | Black |

Dimensions And Weight

| Cable Code | Number of Pairs | Insulation Thickness mm/inch | Sheath Thickness mm/inch | Nominal Overall Diameter mm/inch | Nominal Weight kg/km / lbs/kft |
|--|-----------------|------------------------------|--------------------------|----------------------------------|--------------------------------|
| 0.5mm Conductor, 0.9mm Insulated Wire | | | | | |
| TP7-2Y2Y-2P05-SS-A | 2 | 0.2/0.0079 | 1.2/0.047 | 5.0/0.197 | 26.2/17.6 |
| 0.8mm Conductor, 1.36mm Insulated Wire | | | | | |
| TP7-2Y2Y-1P08-SS-A | 1 | 0.28/0.0110 | 1.2/0.047 | 5.3/0.209 | 26.6/17.9 |