

PE/PVC Insulated Parallel Drop Wires to RUS  
(REA) PE-7



<b>Application</b>	The drop wires are designed for use in extending telephone circuits to subscriber premises by means of an aerial drop from distribution wire or cables. The shape may be in oval/dumbbell shape to aid in separation of conductors.
<b>Standards</b>	RUS (REA) PE-7 ASTM B227, B452 & B1
<b>Construction</b>	
<b>Conductors:</b>	Two conductors made of 0.9/1.0/1.023mm copper covered steel wires serve dually as conductor and strength members
<b>Bonding:</b>	Bonding of the insulation to the conductors is made to assure the full conductor strength is transferred to the wire support clamps
<b>Insulation:</b>	Conductors are laid in a parallel configuration and covered with low density or medium density polyethylene (PE) or polyvinyl chloride (PVC)

**Electrical Properties**

<b>Nominal Conductor Diameter</b>	mm	0.9	1.0	1.023
<b>Conductor Gauge Size</b>	AWG	19	18.5	18
<b>Conductor Size</b>	mm <sup>2</sup>	0.636	0.785	0.827
<b>Minimum Insulation Resistance @500V DC</b>	MΩ.km / MΩ.kft	30/100	30/100	30/100
<b>Dielectric Strength Conductor to Conductor(3secs)</b>	V DC	7050	7050	7050
<b>Nominal Insulation Thickness</b>	mm/inch	1.02/0.039	1.02/0.039	1.02/0.039
<b>Nominal Insulated Conductor Diameter</b>	mm/inch	2.94/0.116	3.04/0.117	3.06/0.118

**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: 7.5 x Overall Diameter

**Dimensions And Weight**

Cable Code	Number of Cores	Insulation Material	Nominal Insulation Thickness mm/inch	Nominal Overall Dimensions mm/inch	Nominal Weight kg/km / lbs/kft
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1.023mm Conductor, 3.06 Insulated Wire					
TP7-2Y-1P18A-SS	2	PE	1.02/0.04	3.0x7.0/0.11x0.28	32/22
TP7-Y-1P18A-SS	2	PVC	1.45/0.06	3.9x7.6/0.15x0.30	49/33
1.0mm Conductor, 3.04 Insulated Wire					
TP7-Y-1P18/5A-SS	2	PVC	1.02/0.04	3.9x7.4/0.15x0.29	46/31
0.9mm Conductor, 2.94 Insulated Wire					
TP7-2Y-1P19A-SS	2	PE	1.02/0.04	2.9x7.7/0.11x0.30	25/17