



Caledonian

INDOOR TELEPHONE CABLES

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

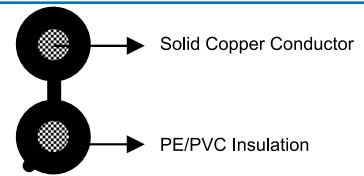
APPLICATION

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.



STANDARDS

- RUS (REA) PE-7
- ASTM B227, B452 & B1



CONSTRUCTION

- **Conductors:** Two conductors made of 0.9/1.0/1.023mm copper covered steel wires serve dually as conductor and strength members.
- **Bonding:** Bonding of the insulation to the conductors is made to assure the full conductor strength is transferred to the wire support clamps.
- **Insulation:** Conductors are laid in a parallel configuration and covered with low density or medium density polyethylene (PE) or polyvinyl chloride (PVC).

ELECTRICAL PROPERTIES

Property	Unit	0.9	1.0	1.023
Nominal Conductor Diameter	mm	0.9	1.0	1.023
Conductor Gauge Size	AWG	19	18.5	18
Conductor Size	mm ²	0.636	0.785	0.827
Minimum Insulation Resistance @500V DC	MΩ·km / MΩ·kft	30/100	30/100	30/100
Dielectric Strength Conductor to Conductor(3secs)	V DC	7050	7050	7050
Nominal Insulation Thickness	mm/inch	1.02/0.039	1.02/0.039	1.02/0.039
Nominal Insulated Conductor Diameter	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
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