



# Caledonian

## INDOOR TELEPHONE CABLES

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

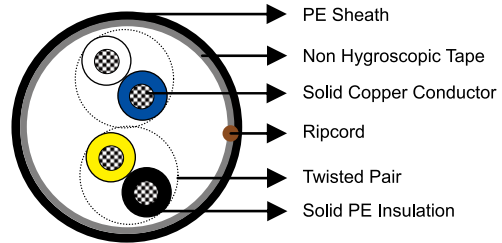
### APPLICATION

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

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Impedance @772KHz	$\Omega$ /km / $\Omega$ /mile	100/160.9	100/160.9
Maximum Average Attenuation @0.8KHz	$\Omega$ /km / $\Omega$ /mile	1.5/2.4	1.5/2.4
Maximum Average Attenuation @64KHz	$\Omega$ /km / $\Omega$ /mile	8.0/12.87	8.0/12.87
Maximum Average Attenuation @772KHz	$\Omega$ /km / $\Omega$ /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

## COLOUR CODE

	A wire	B Wire
1 PR	White	Blue
2 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

