

## Technical Data Sheet

Aerial Drop Wire | Solid Copper Conductor | Single-pair

Pair Count 1P

Outside Plant Copper Cable - Exchange Cable

### Description

Single-pair, vinyl-insulated aerial drop wire designed for use in extending telephone circuits to subscriber premises by means of an aerial drop from distribution wire or cable.

**Conductors:** Two 22.0 AWG (0.64 mm) solid annealed copper conductors serve dually as conductors and strength members. Optimized tensile breaking strength and elongation assure superior toughness against ice loading and impact from falling ice-coated tree limbs and other mechanical shocks.

**Insulation:** Each conductor is insulated in high-density polyethylene in distinctive colors that serves as both insulation and jacket.

**Core Assembly:** Individual conductors are carefully twisted into pairs in a manner to minimize resistance unbalance.

**Ripcord:** A Non-Hygroscopic ripcord is placed parallel to the core to facilitate jacket removal.

**Jacket:** A black, weather resistant, polyvinyl chloride (PVC) jacket is extruded over the ripcord and strength members to protect the core from mechanical damage, degradation by sunlight and ingress of moisture.

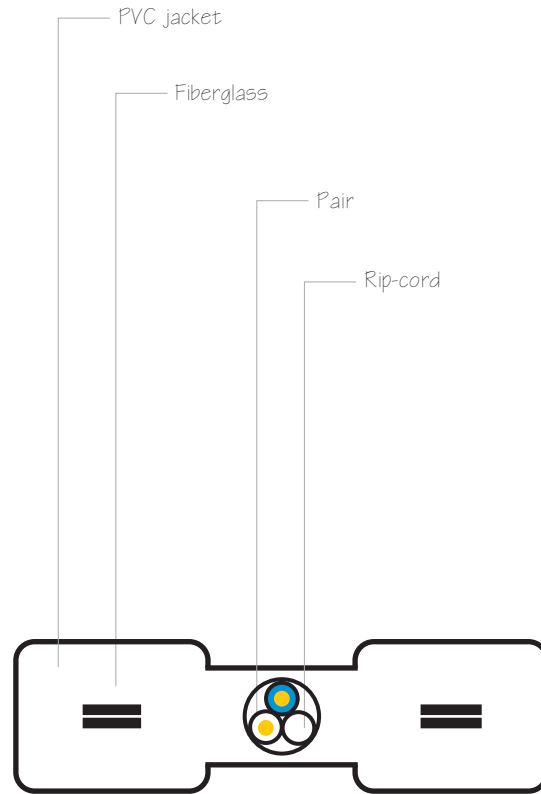
### Applications

4SProducts DSWire® -NMS cables are designed for extending an open wire line or distribution cable pair from a pole and/or cable terminal to a building.

### Qualifications & Approvals

Manufactured to meet requirements of ANSI/ICEA S-89-648-1993 (REA-PE7)

### Cable cut-away



Technical  
Data Sheet

Aerial Drop Wire | Solid Copper Conductor | Single-pair

Pair Count 1P

Outside Plant Copper Cable - Exchange Cable

General Description	
Drop & Distribution Cable with solid polyethylene insulation.	
For use in the Local Distribution network.	
Insulated conductors uniformly twisted together to form a pair.	
Dielectric strength member	
Black PVC jacket compound is extruded over the Core and dielectric strength member.	

Physical Description	
Conductors	Solid annealed bare copper conductors conforming to ANSI/ICEA S-89-648-1993 (REA-PE7)
Insulation	Solid polyethylene
Cable assembly	Twisted pairs, cabled in a circular form.
Color code	White-Blue
Rip-cord	Non-Hygroscopic
Dielectric strength member	Fiberglass strength Members
Outer jacket	Black PVC compound

Mechanical Parameters of Basic Conductors	
Nominal Conductor Diameter	22 AWG   0.64±0.009 mm
Insulated Conductor Diameter	0.04 in   1.14±0.05 mm
Min. Conductor Elongation (%)	20%

Electrical Properties	
Maximum Individual DC resistance @20C	91 ohms/mile   56 nF/km
Mutual Capacitance (max)	94 ohms/mile   58 nF/km
Insulation Resistance @500 V DC (min)	1600 Mohm.mile   1600 Mohm.km

Physical Data & Standard Packaging												
Pair Number	Conductor Diameter		Insulation Diameter		Approximate Minor Dimension		Approximate Major Dimension		Nominal Delivery Length		Approximate Weight of Cable	
	AWG	mm	in	mm	in	mm	in	mm	ft	m	lb/mft	kg/km
1	22	0.64	0.04	1.14	0.19	4.8	0.36	9.1	1000	305	40	60

Color Conductor Insulation		
Pair Number	A Wire	B Wire
1	White	Blue



Specifications are subject to change without notice. The data given is subject to normal manufacturing tolerances. 4SProducts Copper Communication Cables are designed and tested in accordance with the requirements of ANSI/ICEA.

