

## 1906A Multi-Conductor - FleXsnake® Super-Flexible, High-Performance Cable



### Description:

24 AWG stranded (41x40) bare copper conductor, polyolefin insulation, individually shielded with double serve "French Braid" (93% coverage), TC drain wire, numbered/color-coded PVC jackets, overall Black PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
6	24	41x40	BC - Bare Copper	.0225

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
PO - Polyolefin	.008	.040

#### Inner Shield

##### Inner Shield Material:

Type	Inner Shield Material	Coverage (%)
French Braid	BC - Bare Copper	95

##### Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding: 19x26

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Inner Jacket

##### Inner Jacket Material:

Inner Jacket Material	Nom Wall (in.)	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	.014	.119

##### Inner Jacket Color Code Chart:

Number	Color
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue

#### Outer Shield

##### Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.049

## 1906A Multi-Conductor - FlexSnake® Super-Flexible, High-Performance Cable

### Overall Cabling

Overall Nominal Diameter: 0.449 in.

### Pair

#### Pair Color Code Chart:

Number	Color
1	Red & Black

#### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.000	12.000

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 92 lbs/1000 ft.

Max. Recommended Pulling Tension: 180 lbs.

Min. Bend Radius (Install)/Minor Axis: 3.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

#### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)  
60

#### Nom. Inductance:

Inductance (µH/ft)  
.18

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)  
26.1

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)  
47.5

#### Nominal Velocity of Propagation:

VP (%)  
66

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
25.5

## 1906A Multi-Conductor - FlexSnake® Super-Flexible, High-Performance Cable

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 7.200 Ohm/1000 ft

**Max. Operating Voltage - UL:**

**Voltage**

300 V RMS

**Max. Recommended Current:**

**Current**

1.05 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1906A B591000	1,000 FT	111.000 LB	BLACK, MATTE		6 #24 JKTD PR PVC
1906A B59250	250 FT	28.500 LB	BLACK, MATTE		6 #24 JKTD PR PVC
1906A B59500	500 FT	55.500 LB	BLACK, MATTE		6 #24 JKTD PR PVC

## Analog Multi-Pair Snake Cable

FlexSnake® Super-Flexible, High-Performance Cables  
Individually Shielded and Jacketed Twisted Pairs



### Individually Shielded and Jacketed Pairs

Not NEC Rated

#### Product Description

**24 AWG** stranded (41x40) bare copper conductor. Polyolefin insulation. Twisted pairs individually shielded with double serve "French Braid" (93% coverage) with tinned copper drain wire. Pairs have numbered and color-coded PVC jackets (see Chart 7 in Technical Information Section for colors). Overall Black PVC jacket.

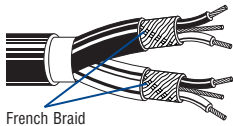
**Color Code:** Red, Black.

#### Specifications

<b>Nominal OD — Conductor</b>	.023" (.58mm)
<b>Nominal OD — Insulation</b>	.040" (1.02mm)
<b>Inner Pair Jacket OD</b>	.119" (3.02mm)
<b>Nominal DCR</b>	
Conductor	25.5Ω/M' (83.7Ω/km)
Shield (Inner Pair)	7.2Ω/M' (23.6Ω/km)
<b>Voltage Rating</b>	300V RMS
<b>Temperature Rating</b>	60°C
<b>Nominal Impedance</b>	60Ω
<b>Nominal Velocity of Propagation</b>	66%
<b>Nominal Capacitance</b>	
Between Conductors	26 pF/Ft. (85 pF/m)
Between Conductor/Shield*	47 pF/Ft. (154 pF/m)

DCR = DC Resistance

\*Capacitance between one conductor and other conductors connected to shield.



French Braid

Part No.	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD	
		Ft.	m	Lbs.	kg	Inch	mm

#### FlexSnake Super-Flexible Twisted Pairs

24 AWG							
<b>1902A</b>	2	250	76.2	12.0	5.5	.330	8.38
		500 †	152.4	27.5	12.5		
		1000 †	304.8	53.0	24.1		
<b>1904A</b>	4	250	76.2	19.8	9.0	.372	8.45
		500 †	152.4	40.5	18.4		
		1000 †	304.8	78.0	35.5		
<b>1906A</b>	6	250	76.2	28.5	12.9	.449	11.40
		500 †	152.4	55.5	25.2		
		1000 †	304.8	111.0	50.5		
<b>1908A</b>	8	250	76.2	36.0	16.3	.482	12.20
		500 †	152.4	72.5	32.9		
		1000 †	304.8	141.0	64.0		
<b>1912A</b>	12	250	76.2	51.8	23.5	.602	15.30
		500 †	152.4	102.5	46.6		
		1000 †	304.8	202.0	91.6		
<b>1916A</b>	16	250	76.2	71.0	32.2	.683	17.30
		500 †	152.4	138.0	62.7		
		1000 †	304.8	279.0	126.6		
<b>1924A</b>	24	250	76.2	108.0	49.0	.825	21.00
		500 †	152.4	214.5	97.3		
		1000 †	304.8	437.0	198.2		
<b>1932A</b>	32	250	76.2	135.3	61.4	.968	24.60
		500 †	152.4	274.0	124.3		
		1000 †	304.8	539.0	244.5		

†Length may vary -10% to +0% from length shown.