

1902A 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.)
2	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

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.050

Overall Cabling

Overall Nominal Diameter: 0.330 in.

Pair

Pair Color Code Chart:

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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:	32 lbs/1000 ft.
Max. Recommended Pulling Tension:	58 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.300 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
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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

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:

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Current

1.05 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1902A B591000	1,000 FT	53.000 LB	BLACK, MATTE	C	2#24 JKTD PR PVC
1902A B59250	250 FT	12.000 LB	BLACK, MATTE	C	2#24 JKTD PR PVC
1902A B59500	500 FT	27.500 LB	BLACK, MATTE		2#24 JKTD PR PVC

Notes:

C = CRATE REEL PUT-UP.

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.

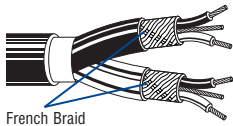
Color Code: Red, Black.

Specifications

Nominal OD — Conductor	.023" (.58mm)
Nominal OD — Insulation	.040" (1.02mm)
Inner Pair Jacket OD	.119" (3.02mm)
Nominal DCR	
Conductor	25.5Ω/M' (83.7Ω/km)
Shield (Inner Pair)	7.2Ω/M' (23.6Ω/km)
Voltage Rating	300V RMS
Temperature Rating	60°C
Nominal Impedance	60Ω
Nominal Velocity of Propagation	66%
Nominal Capacitance	
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							
1902A	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		
1904A	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		
1906A	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		
1908A	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		
1912A	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		
1916A	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		
1924A	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		
1932A	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.