

# Detailed Specifications & Technical Data

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## METRIC MEASUREMENT VERSION

### 1916A Multi-Conductor - FleXnake® Super-Flexible, High-Performance Cable



For more Information  
please call

1-800-Belden1



#### General 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. (mm)
16	24	41x40	BC - Bare Copper	0.5715

Total Number of Conductors: 32

##### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)	Dia. (mm)
PO - Polyolefin	0.2032	1.016

##### 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 (mm)	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	0.3556	3.0226

Inner Jacket Color Code Chart:

Number	Color
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Gray
9	White
10	Black
11	Tan
12	Pink
13	Lt Gray/Brown
14	Lt Gray/Red
15	Lt Gray/Orange
16	Lt Gray/Yellow

##### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

##### Outer Jacket

Outer Jacket Material:

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Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.9558

#### Overall Cable

Overall Nominal Diameter: 17.348 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Red & Black

##### Pair Lay Length & Direction:

Lay Length (mm)	Twists (twist/m)
25.4	39.372

#### Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 379.491 Kg/Km

Max. Recommended Pulling Tension: 2090.650 N

Min. Bend Radius/Minor Axis: 175.260 mm

#### Applicable Specifications and Agency Compliance (Overall)

##### Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

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/m)
0.59058

##### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
85.6341

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

Capacitance (pF/m)
155.848

##### Nominal Velocity of Propagation:

VP (%)
66

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
83.6655

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 23.623 Ohm/km

##### Max. Operating Voltage - UL:

Voltage
300 V RMS

##### Max. Recommended Current:

Current
1.05 Amps per conductor @ 25°C

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#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1916A B591000	1,000 FT	279.000 LB	BLACK, MATTE	C	16 #24 JKTD PRS PVC
1916A B59250	250 FT	71.000 LB	BLACK, MATTE		16 #24 JKTD PRS PVC
1916A B59500	500 FT	135.000 LB	BLACK, MATTE	C	16 #24 JKTD PRS PVC

#### Notes:

C = CRATE REEL PUT-UP.

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