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please call

1-800-Belden1



### General Description:

16 AWG pairs stranded (7x24) bare copper conductors, twisted pairs, PVC/Nylon insulation, overall Beldfoil shield (100% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	16	7x24	BC - Bare Copper

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

Insulation Material
PVC/Nylon - Polyvinyl Chloride/Nylon

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
18	7x26	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.1938

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Nominal Diameter: 7.620 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & White

### Mechanical Characteristics (Overall)

Wet Temperature Range:	-30°C To +75°C
Dry Temperature Range:	-25°C To +90°C
Bulk Cable Weight:	67.564 Kg/Km
Max. Recommended Pulling Tension:	467.061 N
Min. Bend Radius/Minor Axis:	30.480 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	TC
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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
Other Specification:	ICEA S-73-532, S-61-402

**Flame Test**

UL Flame Test:	UL1685 UL Loading
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202

**Suitability**

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes
Sunlight Resistance:	Yes

**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Inductance:**

Inductance ( $\mu\text{H}/\text{m}$ )
0.298571

**Nom. Capacitance Conductor to Conductor:**

Capacitance ( $\text{pF}/\text{m}$ )
164.05

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

Capacitance ( $\text{pF}/\text{m}$ )
285.447

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)
12.0413

**Nominal Conductor Loop Resistance:**

Resistance @ 20°C (Ohm/km)
56.8269

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
16.3722

**Max. Operating Voltage - UL:**

Voltage
600 V RMS (NEC Type TC)
150 V RMS (NPLF)

**Notes (Overall)**

**Notes:** Alternate color coding available upon request. Transmission Characteristics: L/R Ratio of Pair (R in Series) 12 microhenries/Ohm.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3090A 01010000	10,000 FT	530.000 LB	BLACK	C Z	2 #16 PVC/NYL FS PVC
3090A 0102500	2,500 FT	132.500 LB	BLACK		2 #16 PVC/NYL FS PVC
3090A 0105000	5,000 FT	245.000 LB	BLACK	C Z	2 #16 PVC/NYL FS PVC

**Notes:**

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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